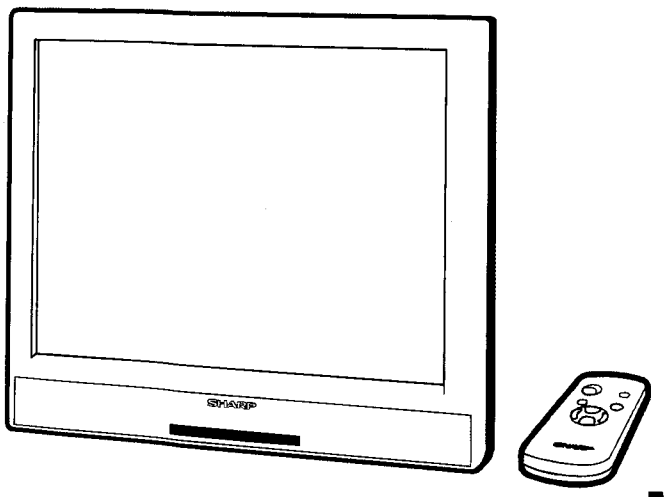
LC-121M2E
LC-150M2E

SHARP SERVICE MANUAL

S19B4LC121M2E



LCD AV MONITOR

MODELS LC-121M2E LC-150M2E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

CONTENTS

The component parts of this model are partially different depending on their suffix symbols. Before servicing the units, be sure to check the suffix symbol on the model label that is applied on the bottom side of the unit.

Suffix symbol (,[K],[X])

SHARP CORPORATION

1. IMPORTANT SERVICE SAFETY PRECAUTION

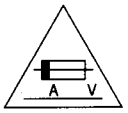
● **Service work should be perfomed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION

FOR CONTINUED PROTECTION



AGAINST A RISK OF FIRE REPLACE

ONLY WITH SAME TYPE FUSE. F701 (1.25A,

250V), F702 (2A, 250V), F703 (1.25A, 250V)

FUSE.

BEFORE RETURNING THE MONITOR

(Fire & Shock Hazard)

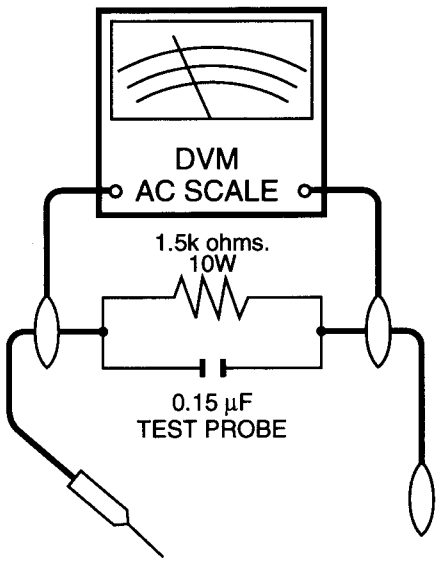
Before returning the monitor to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current in the following manner.

- Plug the AC Adaptor directly into a 100~240 volt AC outlet, and connect the DC power cable into the monitor's DC jack. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resisor.
- Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC Adaptor plug connection reversed.(If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.3V RMS(this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD monitor have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the ***Replacement Parts Lists*** and ***Schematic Diagrams***.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock. fire. or other hazards.

2. SPECIFICATIONS

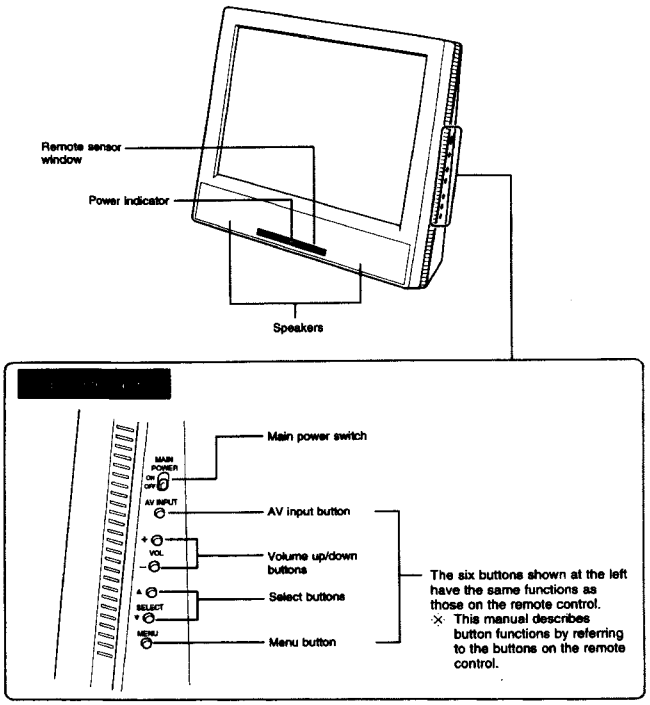
Type:	LCD display unit (LCD color AV monitor)
Size:	12.1" type (184.3 mm × 245.8 mm) (LC-121M2E)
	15" type (219.9 mm × 305.3 mm) (LC-150M2E)
Display System:	Transmitting type TN liquid crystal panel.
Driving System:	TFT (Thin Film Transistor) active matrix system
Number of Picture Elements:	921,600 (480 (V) × 640 (H) × 3 (RBG))
Speaker Output:	0.7 W × 2 (Front)
	2 W × 1 (Rear)
Speaker:	30 mm × 40 mm (Elliptic) × 2 (Front)
	65 mm (Round) × 1 (Rear)
Light Source:	Internal Light (Built-in fluorescent lamp)
Connected Terminals:	Input: DC12V, VHS, S-VHS, Audio and DVD
	Output: VHS, S-VHS, Audio and Headphone
Power Source:	AC 100~240·50/60Hz (Connected to AC Adapter)
Power Consumption (Approx.):	12.1" type 33 W (Connected to AC Adapter) (LC-121M2E)
	15" type 35 W (Connected to AC Adapter) (LC-150M2E)
Operating Temparature:	–10°C~40°C
12.1" type Dimensions(LC-121M2E):	297.4 mm (W) × 264.6 mm (H) × 87 mm (D) (Includes Set Stand)
	297.4 mm (W) × 264.6 mm (H) × 62.5 mm (D) (Not Include Set Stand)
15" type Dimensions(LC-150M2E):	357.7 mm (W) × 309.2 mm (H) × 87 mm (D) (Includes Set Stand)
	357.7 mm (W) × 309.2 mm (H) × 62.5 mm (D) (Not Include Set Stand)
Weight (Approx.):	12.1" type 2.9 kg (LC-121M2E)
	15" type 3.6 kg (LC-150M2E)
Accessories:	Operation Manual, Guarantee Card, AC Adapter, Remote Control, Set Stand Mounting Screws, Wall mounting set angle and Batteries (AAA size x 2)

Specifications are subject to changed without prior notice.

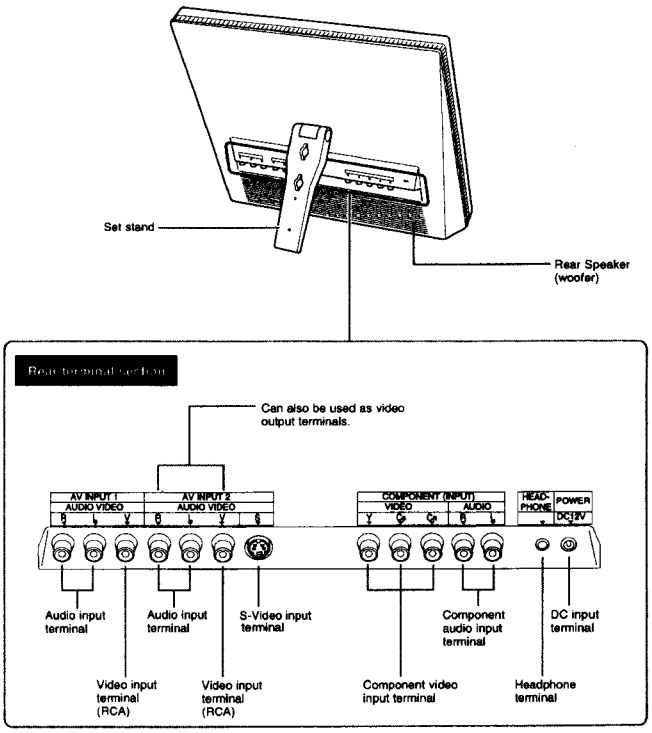
3. PART NAMES

Main Unit

Main unit (front view)

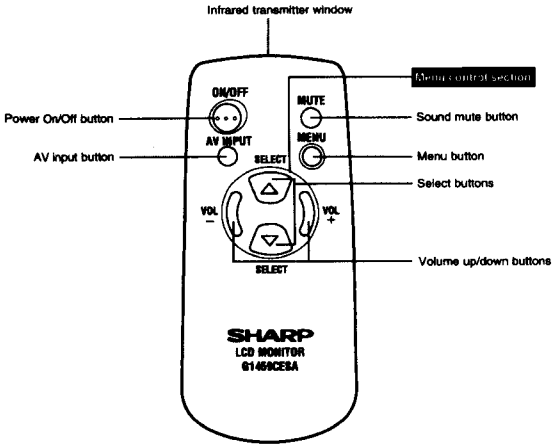


Main unit (rear view)

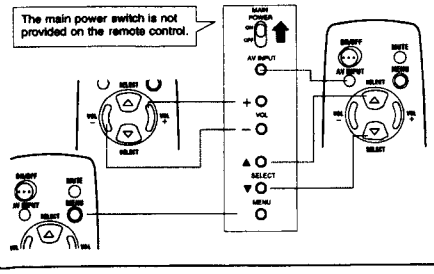


Remote Control

Remote control

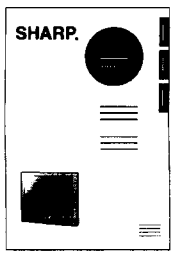


■ The side control section of the main unit is also provided with the AV input, select, volume up/down and menu buttons.
※ This manual describes button functions by referring to the buttons on the remote control.



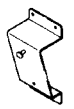
SUPPLIED ACCESSORIES

Make sure the following accessories are provided with the product.

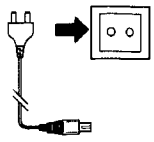


Operation Manual (×1)

Wireless Remote Control (×1)



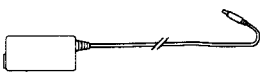
Wall Mount Bracket (×1)



* Product shape varies in some countries.

Fixed Screw for set stand (×1)

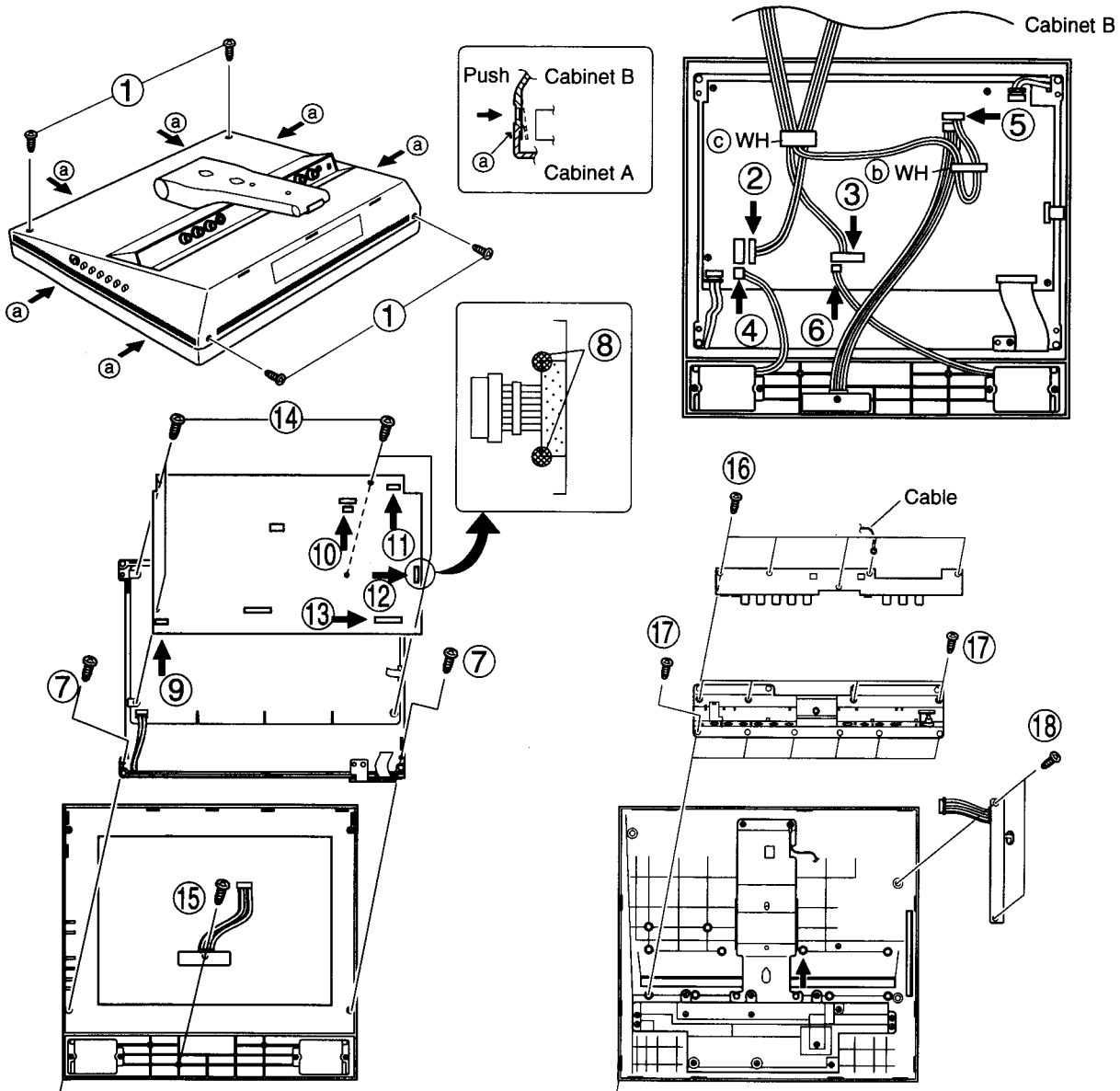
Size AAA dry battery (×2)



AC Adapter (×1)

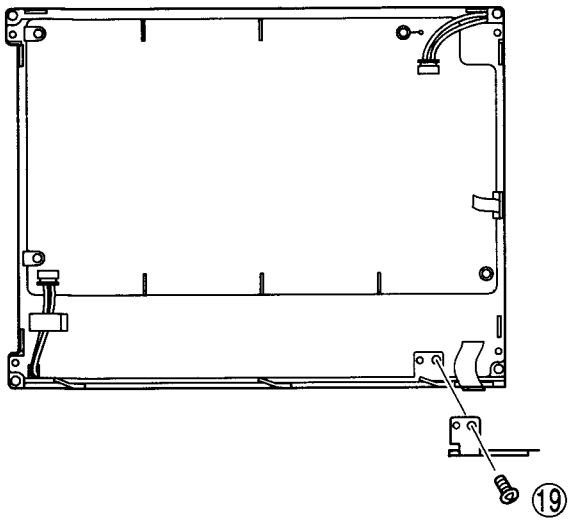
4. DISASSEMBLY OF THE SET

1. Remove four screws (①).
2. Opening six claws (ⓐ), release the cabinet B.
   Remove the wire holder (ⓑ) and disconnect each connectors (②~⑥).
   Remove the cabinet B.
3. Remove two screws (⑦) which mounting the LCD display unit.
4. Remove soldering of copper-foil tape (⑧) .
5. Disconnect each connectors (⑨~⑬) from the LCD display unit.
6. Remove the cabinet A.
7. Remove four screws (⑭) which mounting the main PWB unit.
8. Remove one screw (⑮) and remove the remote control receptor PWB.
9. Remove five screws (⑯) and GND cable.
10. Remove ten screws (⑰) and remove the terminal cover.
11. Remove two screws (⑱) and remove the switch PWB.

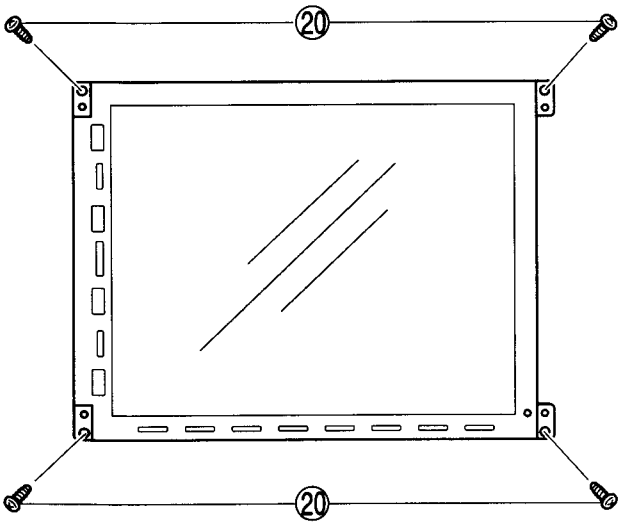


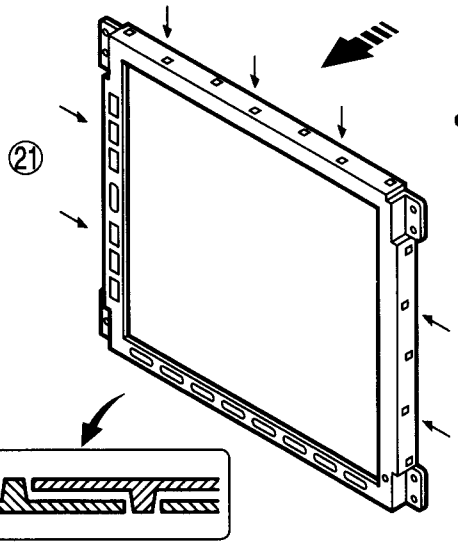
Cabinet A
12 type CCABA2338CE01 GCABA2338CEKA
15 type CCABA2343CE01 GCABA2343CEKA

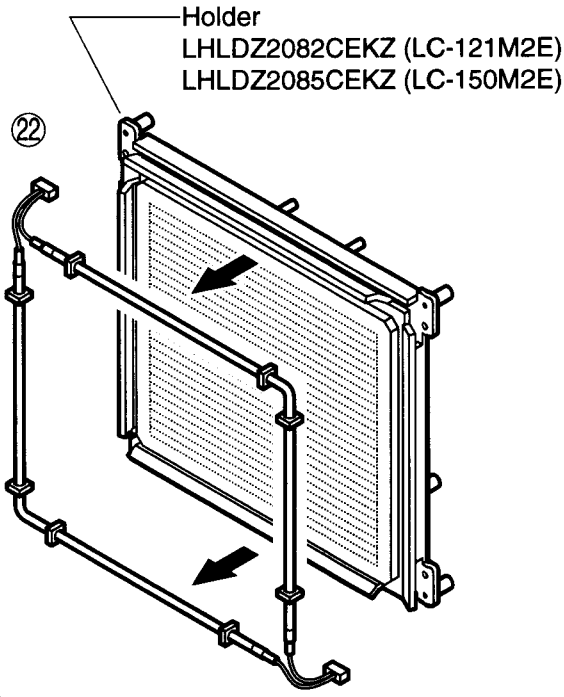
Cabinet B
12 type
CCABB2246CE01 GCABB2246CEKA (LC-121M2E/K)
CCABB2246CE03 GCABB2246CEKA (LC-121M2X)
15 type
CCABB2249CE01 GCABB2249CEKA (LC-150M2E/K)
CCABB2249CE03 GCABB2249CEKA (LC-150M2X)



12. Remove one screw (⑲) and remove the Sosu shield angle.
13. Remove four screws (⑳) which mounting the LCD display unit.
14. Spread bites of the LCD unit (㉑) out to be off from claws.
15. Remove the Lamp unit (㉒).







5. ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replace is performed, adjust as follows.

5-1. Preparation for adjustment

(1)Use the exclusive-use AC adapter or stable DC power supply.
AC adapter: UADP-0181CEZZ
DC power supply: 12 ± 0.5V

5-2. Special mode setting procedure

(1)After initialization of E^2PROM the mode is changed to the adjustment mode.
[Procedure]
Connect TP2007 and TP2008 to GND, and turn on the power.

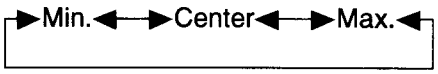
[Description]
- The initialization of microcomputer is as follows.
- AV position, DAC data, G/A data, and video chroma data adjustment values are taken as defaults.

(2)Change to adjustment mode
[Procedure]
Short-circuit TP2007 to GND, and turn on the power.
Or short-circuit TP2008 to GND, and turn on the power.
Or holding down the [AV INPUT] key and [MENU] key, turn on the main power, and simultaneously press the (inspection process) [SELECT ▼] key and [VOL–] key to change the mode to the adjustment mode.

[Description]
The manual adjustment or adjustment through communication with the automatic machine is performed.

(3)Inspection mode
[Procedure]
Holding down the [AV INPUT] key and [MENU] key, turn on the power.

[Description]
- In the ordinary menu select "PICTURE" with the [SELECT] key, and decide with the [VOL] key. Then select "CONTRAST", "TINT (only NTSC)", "COLOR", "BLACK LEVEL", "SHARPNESS", "RED" , and "BLUE" with the [SELECT] key, and decide with the [VOL] key. After that, adjust values with the [VOL] key.
- In the ordinary menu select "SOUND" with the [SELECT] key, and decide with the [VOL] key. Then, select "TREBLE", "BASS", and "BALANCE" with the [SELECT] key, and decide with the [VOL] key. After that adjust values with the [VOL] key.
- VOLUME, CONTRAST, TINT (only NTSC), COLOR, BLACK LEVEL, SHARPNESS, RED, BLUE, TREBLE, BASS, and BALANCE change as follows.



(4)Shipping setting mode
[Procedure]
Holding down the [AV INPUT] key and [MENU] key, turn on the main power, and simultaneously press the (inspection process) [SELECT ▲] key and [VOL+] key to change the mode to the adjustment mode.

[Description]
User adjustment and other values are taken as defaults.
If AV1 is indicated as SETTING COMPLETE, setting has been completed.

5-3. Cancel of special mode

Turn off the main unit power.

5-4. Preparation adjustment

(1)Use the exclusive-use AC adapter or stable DC power supply.
AC adapter: UADP-0181CEN1
DC power supply: 12 ± 0.5V

5-5. OSD menu indication and items in case of manual adjustment

Page	Item	Adjusting range			Remarks
		Minimum	Maximum	Initial	
1	+ B – ADJ	0	255	128	
	MODEL			M2H	F2/M2H/M2U/M2E
	TUNER			OFF	1/2/OFF
	AUDIO MULTIPLEX			OFF	OFF/ON
	BOOSTER			0	0/1/2/3
	SYSTEM			AUTO	N358/N443/PAL/PAL-M/SECAM/AUTO
	COPY GUARD			ON	OFF/ON
	CH MEMORY			OFF	OFF/12/16
	SECAM			ON	OFF/ON
	MULTI LANG.			OFF	OFF/ON
	TIMER			OFF	OFF/ON
The Ver. No. will be displayed on the lowest part of lines.					
2	TA1276 DATA				****
	COM	0	255	128	
	NTSC/PALM OSC	0	255	128	
	N358 BRIGHTNESS	0	255	170	
	R CUTOFF	0	255	80	
	B CUTOFF	0	255	80	
	N358UNICOLOR	0	127	80	
	R DRIVE	0	127	64	
	B DRIVE	0	127	64	
	N358SCOLOR	0	31	25	
	N358TINT	0	127	74	
	DATA COPY			WAIT	WAIT/SEND
3	N358 R-Y PHASE	0	3	2	
	N358 B-Y PHASE	0	3	1	
	N443 BRIGHTNESS	0	255	170	
	N443 UNICOLOR	0	127	80	
	N443 SCOLOR	0	31	25	
	N443TINT	0	127	74	
	PAL-M BRIGHTNESS	0	255	170	
	PAL-M UNICOLOR	0	127	80	
	PAL-M SCOLOR	0	31	25	
	PAL-M TINT	0	127	74	
	R-ADJ	0	255	128	
One blank line.					

4	PAL/SECAM OSC	0	255	128	
	PAL BRIGHTNESS	0	255	170	
	PAL UNICOLOR	0	127	80	
	PAL SCOLOR	0	31	25	
	PAL TINT	0	127	74	
	BELL F0	0	255	120	
	B-Y BLACK LEVEL	0	15	8	
	R-Y BLACK LEVEL	0	15	8	
	SECAM BRIGHTNESS	0	255	170	
	SECAM UNICOLOR	0	127	80	
	SECAM COLOR	0	127	75	
	SECAM TINT	0	127	74	
5	DVD NT BRIGHTNESS	0	255	170	
	DVD NT UNICOLOR	0	127	80	
	DVD NT COLOR	0	127	75	
	DVD NT TINT	0	127	74	
	DVD NT R-YPHASE	0	3	2	
	DVD NT B-YPHASE	0	3	3	
	DVD PAL BRIGHTNESS	0	255	170	
	DVD PAL UNICOLOR	0	127	80	
	DVD PAL COLOR	0	127	75	
	DVD PAL TINT	0	127	74	
	I^2C DATA				000000
	I^2C DATA			WAIT	WAIT/SEND
6	TEST PATTERN			OFF	ON/OFF
	G/A DATA				0000
	G/A DATA			WAIT	WAIT/SEND
	DIGITAL SYNC SEP.	0	FF	87	Fixed
	AV NTSC H	0	7F	18	Fixed
	DVD NTSC H	0	7F	1C	Fixed
	AV PAL H	0	7F	11	Fixed
	DVD PAL H	0	7F	15	Fixed
	AV SECAM H	0	7F	0E	Fixed
	NT/PALM V	1	1F	0C	Fixed
	PAL V	1	1F	0B	Fixed
	SECAM V	1	1F	0B	Fixed
7	N443 R-YPHASE	0	3	2	Fixed
	N443 B-YPHASE	0	3	1	Fixed
	PAL R-YPHASE	0	3	2	Fixed
	PAL B-YPHASE	0	3	1	Fixed
	PAL-M R-YPHASE	0	3	2	Fixed
	PAL-M B-YPHASE	0	3	1	Fixed
	SECAM R-YPHASE	0	3	2	Fixed
	SECAM B-YPHASE	0	3	1	Fixed
	DVD PAL R-YPHASE	0	3	2	Fixed
	DVD PAL B-YPHASE	0	3	1	Fixed
	COLOR	0	127	60	Fixed
	SCONT	0	31	18	Fixed

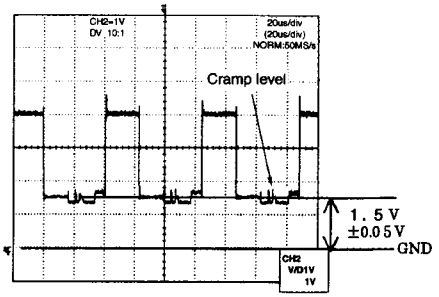
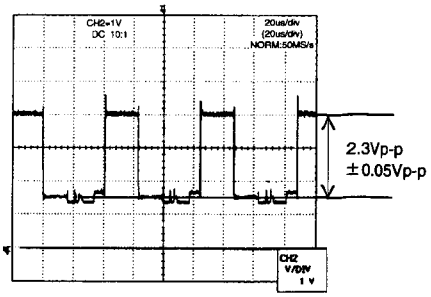
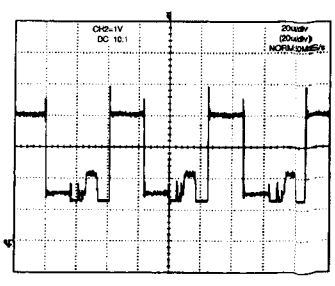
8	DAC 2 1ch	0	255	0	Fixed
	DAC 2 2ch	0	255	0	Fixed
	DAC 2 3ch	0	255	0	Fixed
	DAC 2 4ch	0	255	0	Fixed
	DAC 2 5ch	0	255	0	Fixed
	DAC 2 6ch	0	255	0	Fixed
	DAC 2 7ch	0	255	0	Fixed
	DAC 2 8ch	0	255	0	Fixed
	DAC 2 9ch	0	255	0	Fixed
	DAC 2 10ch	0	255	0	Fixed
	DAC 2 11ch	0	255	0	Fixed
	DAC 2 12ch	0	255	0	Fixed

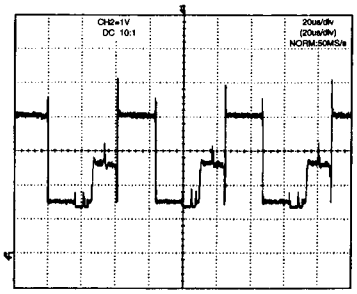
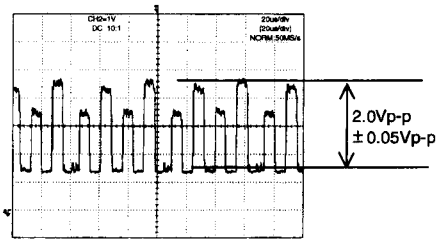
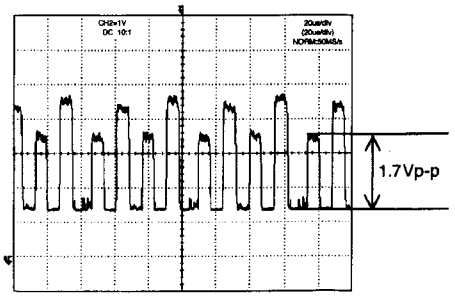
5-6. Service Adjusting

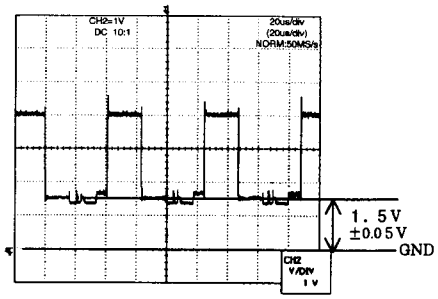
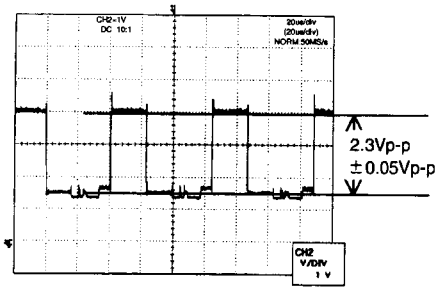
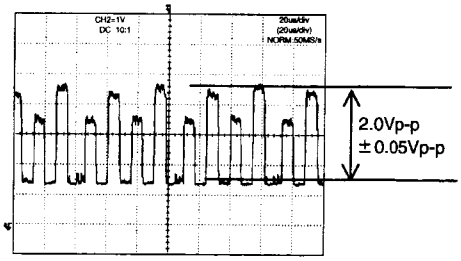
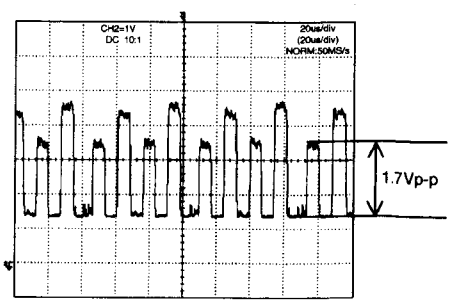
5-6-1. Basic Adjustment

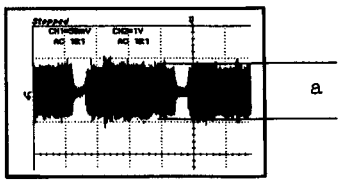
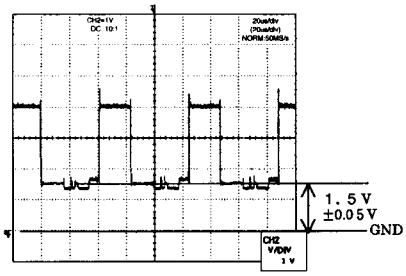
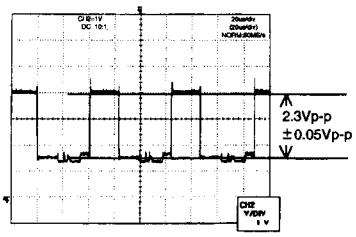
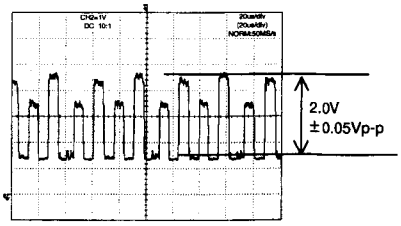
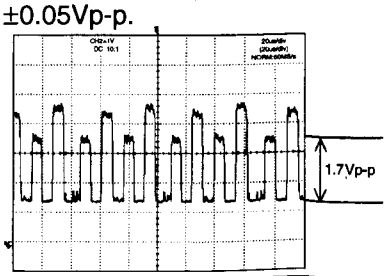
	Adjustment	Adjusting conditions	Adjusting method
1	+B Adjustment	1. Connect the DC voltmeter to TP1104	1. Adjust +B-ADJ to 5.1V ± 0.05V. (DAC 9ch)
2	Model setup	1. Make sure that M2H has been set. (Not setting M2E)	When M2H is selected, the item settings are as follows. TUNER OFF AUDIO MULTIPLEX OFF BOOSTER 0 SYSTEM AUTO COPY GUARD ON CH MEMORY OFF SECAM ON MULTI LANG. OFF TIMER OFF
3	Counter-bias adjustment	1. Set the AV1 mode to set signal noninput state. 2. Fit the specified adjusting instrument to the screen center. 3. Observe the adjusting instrument output on the oscilloscope.	1. Adjust COM so as to minimize the waveform peak-peak. (DAC7ch)
4	NTSC / PAL-MOSC adjustment	1. Input the monoscope pattern of NTSC into AV1.	1. Adjust NTSC/PALM OSC so as to get the normal screen. (DAC8ch)

5-6-2. AV input Adjustment

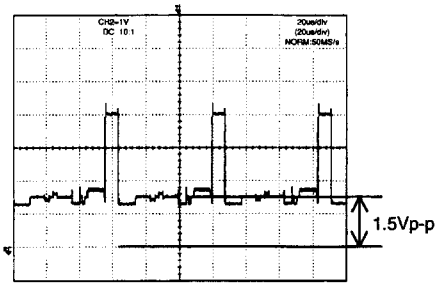
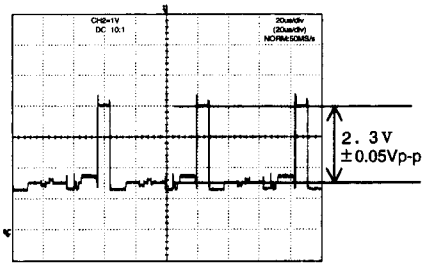
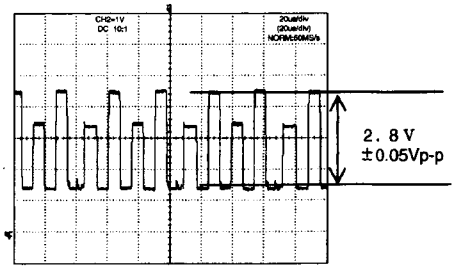
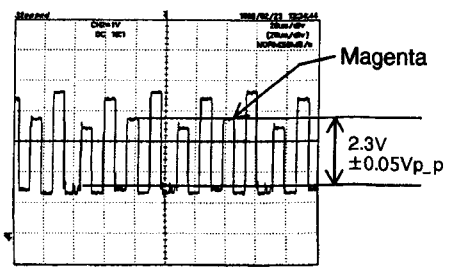
	Adjustment	Adjustment conditions	Adjustment method
1	Brightness adjustment (N358)	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect the oscilloscope to TP821 (IC803, pin7, G output).	1. Adjust N358 BRIGHTNESS, and adjust the black level of G output so as to get DC 1.5±0.05V. 
2	R-cut off adjustment	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect the oscilloscope to TP821 (IC803, pin7, G output). 3. Connect the oscilloscope to TP819 (IC803, pin1, R output).	1. Adjust R CUTOFF so as to equalize the black levels of green and red.
3	B-cut off adjustment	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect the oscilloscope to TP821 (IC803, pin7, G output). 3. Connect the oscilloscope to TP820 (IC803, pin8, B output).	1. Adjust B CUTOFF so as to equalize the black levels of green and blue.
4	Unicolor adjustment (N358)	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect the oscilloscope to TP821 (IC803, pin7, G output).	1. Adjust N358UNICOLOR, and adjust so as to get 100% white-black level video component equal to 2.3±0.05Vp-p. 
5	R DRIVE adjustment	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect CH1 of oscilloscope to TP821 (G output). 3. Connect CH2 of oscilloscope to TP819 (R output).	1. Adjust so as to get 100% white level identical with that of green. 

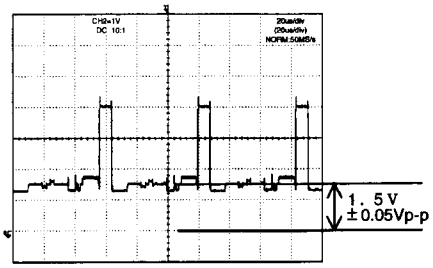
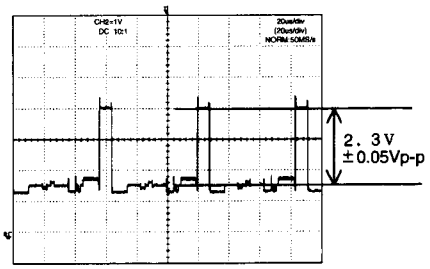
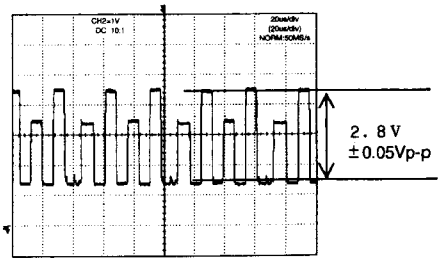
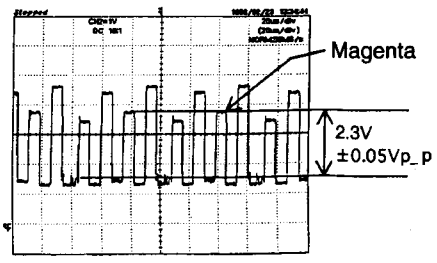
6	B DRIVE adjustment	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect CH1 of oscilloscope to TP821 (G output). 3. Connect CH2 of oscilloscope to TP820 (B output).	1. Adjust so as to get 100% white level identical with that of green. 
7	Colour level adjustment (N358)	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect the oscilloscope to TP820 (B output).	Adjust N358 SCOLOR so as to get the colour bar signal blue amplitude (black level - peak level) equal to 2.0V ± 0.05Vp-p. 
8	Tint adjustment (N358)	1. Input the standard colour bar signal (the same pattern as that of JPN-8CH) of N358 into AV1. 2. Connect the oscilloscope to TP820 (B output).	1. Adjust N358TINT so as to get the colour bar signal magenta amplitude (black level-peak level) equal to 1.7V ± 0.05Vp-p. 
9	N443/PAL-M adjustment	1. Position the cursor on DATA COPY and press VOL key.	1. The indication changes from WAIT to SEND, and after the lapse of one second WAIT is restored. Thus, N443, PAL-M adjustment is completed.
10	4V adjustment	1. Connect the DC voltmeter to TP1110	1. Adjust R-ADJ to 4.0V ± 0.05V. (DAC 6ch)
11	PAL/SECAM OSC adjustment	1. Input the monoscope pattern of PAL into AV1.	1. Adjust PAL/SECAM OSC so as to get the normal screen. (DAC8ch)

12	Brightness adjustment (PAL)	1. Input the standard colour bar signal of PAL into AV1. 2. Connect oscilloscope to TP821 (IC803, pin7, G output).	1. Adjust PAL BRIGHTNESS, and adjust the black level of G output so as to get DC 1.5±0.05V. 
13	Unicolor adjustment (PAL)	1. Input the standard colour bar signal of PAL into AV1. 2. Connect oscilloscope to TP821 (IC803, pin7 , G output).	1. Adjust PAL UNICOLOR, and adjust so as to get 100% white-black level video component equal to 2.3±0.05 Vp-p. 
14	Colour level adjustment (PAL)	1. Input the standard colour bar signal (the same pattern as that of E-12CH) of PAL into AV1. 2. Connect the oscilloscope to TP820 (B output).	Adjust PAL SCOLOR so as to get the colour bar signal blue amplitude (black level - peak level) equal to 2.0V ±0.05Vp-p. 
15	Tint adjustment (PAL)	1. Input the standard colour bar signal (the same pattern as that of E-12CH) of PAL into AV1. 2. Connect the oscilloscope to TP820 (B output).	1. Adjust PAL TINT so as to get the colour bar signal magenta amplitude (black level-peak level) equal to 1.7V ±0.05Vp-p. 

16	BELL f0 adjustment	1. Connect the oscilloscope to TP2851.	1. Adjust BELL f0 so as to minimize the a-level. 
17	Brightness adjustment (SECAM)	1. Input the standard colour bar signal (the same pattern as that of E-10CH) of SECAM into AV1. 2. Connect oscilloscope to TP821 (IC803, pin7, G output).	1. Adjust SECAM BRIGHTNESS, and adjust the black level of G output to DC 1.5±0.05V. 
18	Unicolor adjustment (SECAM)	1. Input the standard colour bar signal (the same pattern as that of E-10CH) of SECAM into AV1. 2. Connect oscilloscope to TP821 (IC803, pin7, G output).	1. Adjust SECAM UNICOLOR, and adjust so as to get 100% white-black level video component equal to 2.3± 0.05Vp-p. 
19	Colour level adjustment (SECAM)	1. Input the standard colour bar signal (the same pattern as that of E-10CH) of SECAM into AV1. 2. Connect the oscilloscope to TP820 (B output).	Adjust SECAM COLOR so as to get the colour bar signal blue amplitude (black level - peak level) equal to 2.0V ±0.05Vp-p. 
20	Tint adjustment (SECAM)	1. Input the standard colour bar signal (the same pattern as that of E-10CH) of SECAM into AV1. 2. Connect the oscilloscope to TP820 (B output).	1. Adjust SECAM TINT so as to get the colour bar signal magenta amplitude (black level-peak level) equal to 1.7V ±0.05Vp-p. 

5-6-3. Component input Adjustment

	Adjustment	Adjusting conditions	Adjusting method
1	Brightness adjustment (NTSC)	1. From SG, input the 100% white colour bar signal of NTSC into conponent terminal. 2. Connect oscilloscope to TP821 (IC803, pin7, G output).	Adjust DVD NT BRIGHTNESS, and adjust the black level of G output so as to get DC 1.5±0.05V. 
2	Unicolor adjustment (NTSC)	1. From SG, input the 100% white colour bar signal of NTSC into conponent terminal. 2. Connect oscilloscope to TP820 (IC803, pin8).	Adjust DVD NT UNICOLOR, and adjust so as to get 100% white-black level video component equal to 2.3±0.05Vp-p. 
3	Colour level adjustment (NTSC)	1. From SG, input the 100% white colour bar signal of NTSC into conponent terminal. 2. Connect the oscilloscope to TP820 (B output).	Adjust DVD NT COLOR so as to get the colour bar signal blue amplitude (black level - peak level) equal to 2.8V±0.05Vp-p. 
4	Tint adjustment (NTSC)	1. From SG, input the 100% white colour bar signal of NTSC into conponent terminal. 2. Connect the oscilloscope to TP820 (B output).	Adjust DVD NT TINT so as to get the colour bar signal magenta amplitude (black level - peak level) equal to 2.3V ±0.05Vp-p. 

5	Brightness adjustment (PAL)	1. From SG, input the 100% white colour bar signal of PAL into conponent terminal. 2. Connect oscilloscope to TP821 (IC803, pin7, G output).	Adjust DVD PAL BRIGHTNESS, and adjust the black level of G output so as to get DC 1.5±0.05V. 
6	Unicolor adjustment (PAL)	1. From SG, input the 100% white colour bar signal of PAL into conponent terminal. 2. Connect oscilloscope to TP820 (IC803, pin8, B output).	Adjust DVD PAL UNICOLOR, and adjust so as to get 100% white-black level video component equal to 2.3±0.05Vp-p. 
7	Colour level adjustment (PAL)	1. From SG, input the 100% white colour bar signal of PAL into conponent terminal. 2. Connect the oscilloscope to TP820 (B output).	Adjust DVD PAL COLOR so as to get the colour bar signal blue amplitude (black level - peak level) equal to 2.8V±0.05Vp-p. 
8	Tint adjustment (PAL)	1. From SG, input the 100% white colour bar signal of PAL into conponent terminal. 2. Connect the oscilloscope to TP820 (B output).	Adjust DVD PAL TINT so as to get the colour bar signal magenta amplitude (black level - peak level) equal to 2.3V±0.05Vp-p. 

5-7. Shipping setting

(1)[Procedure]

Holding down the [AV INPUT] key and [MENU] key, turn on the main power, and simultaneously press the (inspection process) [SELECT ▲] key and [VOL+] key to change the mode to the adjustment mode.

(2)[Indication]

AV1 is indicated as SETTING COMPLETE.

(3)[Description]

Mode is memorized as SETTING COMPLETE.

Menu setting descriptions are as follows.

VOLUME	30
CONTRAST	30 (AV1 / AV2 / COMPONENT)
TINT	0 (AV1 / AV2 / COMPONENT) (ONLY NTSC)
COLOUR	0 (AV1 / AV2 / COMPONENT)
SHARPNESS	0 (AV1 / AV2 / COMPONENT)
RED	0 (AV1 / AV2 / COMPONENT)
BLUE	0 (AV1 / AV2 / COMPONENT)
COLOUR SYSTEM	AUTO (AV1 / AV2 / COMPONENT)
TREBLE	0
BASS	0
BALANCE	0
BRIGHTNESS	BRIGHT
UPSIDE	NORMAL
RIGHT / LEFT	NORMAL
AV2 IN / OUT	IN

6. INTEGRATED CIRCUIT TERMINAL ARRANGEMENTS

1. IC2001 (QFP, 80pins)

Terminal No.	Terminal name	I/O	Function
1	N. C	–	
2	N. C	–	
3	KEY3	I	Key input 3
4	KEY4	I	Key input 4
5	H PDET	I	Headphon input pickup
6	M	O	Audio selection 1
7	S	O	Audio selection 2
8	MONO	O	Forced monophonic
9	FS MUT	O	Front speaker MUTE output
10	RS MUT	O	Rear speaker MUTE output
11	N. C	–	
12	N. C	–	
13	CSYNC	I	Composite sync signal input
14	IF AGC	I	IFAGC input
15	PLCS	O	TV PLL chip select output
16	MRDY	I	I²C bus opening/connection selection input
17	PLLD	I	TV-PLL lock signal input
18	LMUTE	O	Lineout-Mute output
19	SCLK	I/O	Serial clock signal
20	SOUT	O	Serial data output
21	AFT	I	AFT voltage input
22	AGC	I	AGC input voltage
23	SCL	I/O	I²C bus serial clock line
24	SDA	I/O	I²C bus serial data line
25	N. C	–	
26	N. C	–	
27	CNV s s		GND connection
28	ϕ	O	Timing output
29	RESET	I	Change to "Reset mode" in "L" state
30	Xin	I	Microcomputer oscillator connection
31	Xout	O	Microcomputer oscillator connection
32	V s s	I	GND
33	PSW	I	Power switch input
34	POW	O	DC/DC control output
35	COCS	O	G/A chip selection output
36	DACS	O	D/A chip selection output
37	BOOST	O	Booster selection output
38	BOOLV	O	Booster level selection output
39	N. C	–	
40	N. C	–	
41	DA2CS	O	D/A 2 chip selection output
42	AV1/AV2	O	Analog SW selection 1
43	AV/S	O	Analog SW selection 2
44	Y/COM	O	Analog SW selection 3
45	IN/OUT	O	Analog SW selection 4
46	REQ	O	"H" in [ADJUSTMENT] mode, "L" in other modes.
47	Empty	I	
48	STB	O	Micro computer power off output
49	SECAM	O	"H" in SECAM mode, "L" in other modes.

Terminal No.	Terminal name	I/O	Function
50	PAL	O	"H" in PAL mode, "L" in other modes.
51	N. C	–	
52	N. C	–	
53	N. C	–	
54	SAFE	I	Parking input
55	Empty	I	
56	Empty	I	
57	Empty	I	
58	Empty	I	
59	Empty	I	
60	Empty	I	
61	N. C	I	
62	BLK		OSD blanking output
63	N. C	I	
64	N. C	–	
65	N. C	–	
66	BOUT	O	B signal output
67	GOUT	O	G signal output
68	ROUT	O	R signal output
69	Vsync	I	OSD virtical sync signal input
70	Hsync	I	OSD horizontal sync signal input
71	N. C	–	
72	V c c	I	Positive voltage power terminal
73	N. C	–	
74	OSC1		OSD clock
75	OSC2		OSD clock
76	N. C	–	
77	KEY 1	I	Key input1
78	KEY 2	I	Key input2
79	IREM	I	Ir Remotecontrol input
80	ST/MT	I	Broadcast mode input

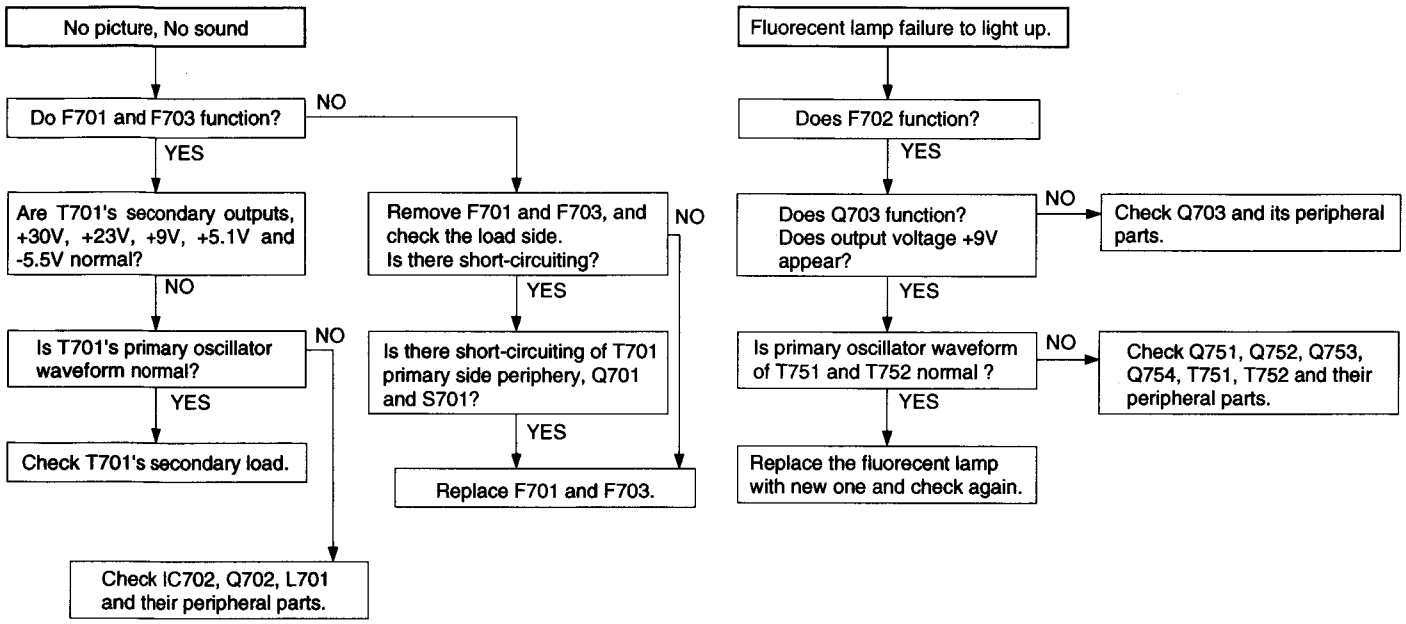
2. IC1201 (QFP, 128pins)

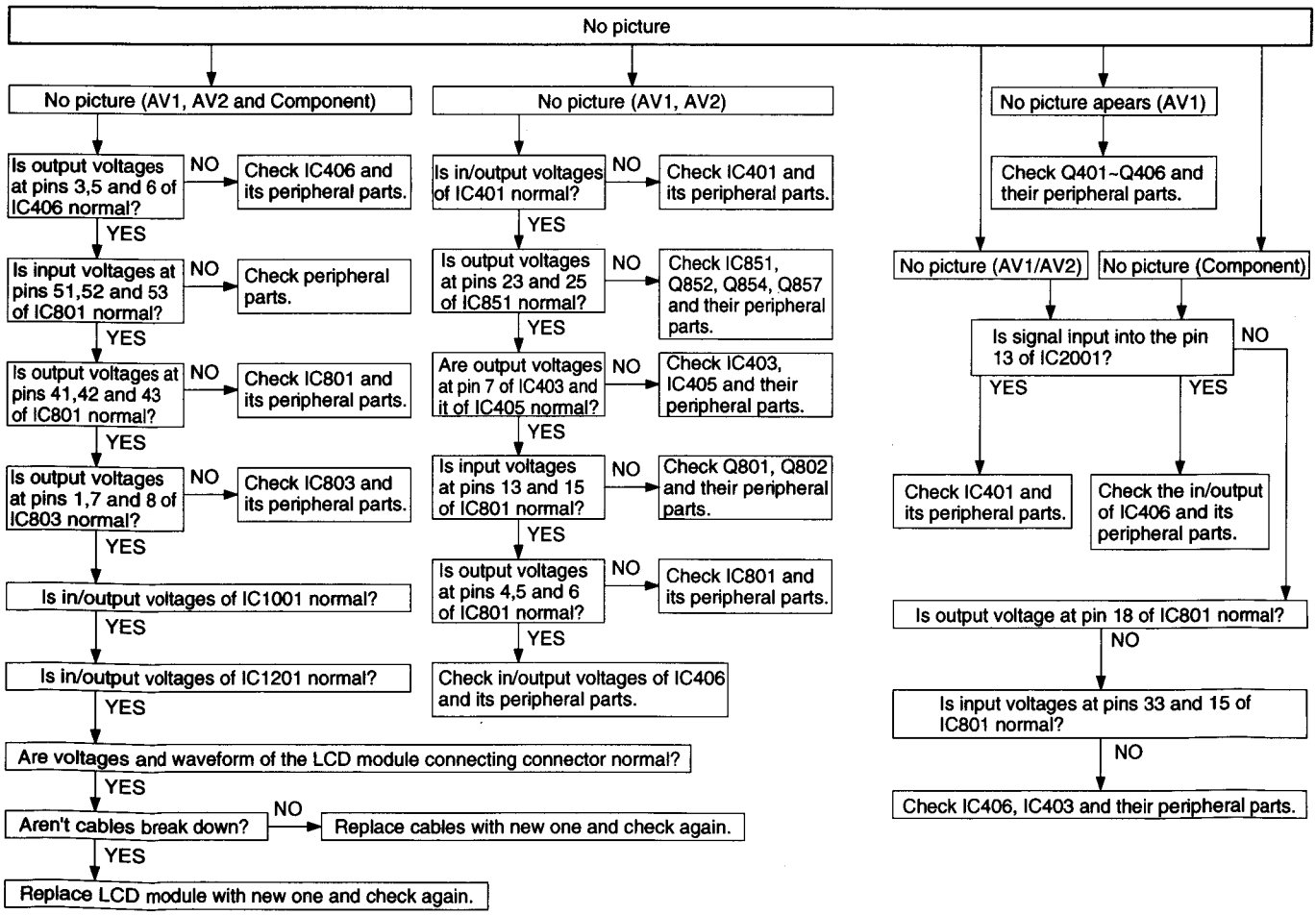
Terminal No.	Voltage	I/O	Signal name	Function
1	5.0V	I	OSD_BK	OSD Blanking input
2	5.0V	I	OSD_R	OSD R input
3	5.0V	I	OSD_G	OSD G input
4	5.0V	I	OSD_B	OSD B input
5	5.0V	O	OSDVD	OSD V output
6	5.0V	O	OSDHD	OSD H output
7	5.0V	O	OSDCK	OSD clock output
8	5.0V	O	VCIHD	Horizontal sync output(VCI)
9	5.0V		GND	
10	5.0V		VCC	
11	5.0V	O	OFL	PWM output (Inverter)
12	5.0V	I	MP_DA	3-wire serial data input
13	5.0V	I	MP_CK	3-wire serial clock input
14	5.0V	I	MP_CS	3-wire serial chip selection input
15	5.0V	I	TVAV	Copy guard ON/OFF input
16	5.0V	I	FREE	Inside/outside sync selection input
17	5.0V	I	CSYNC	Composit signal input
18	5.0V	O	PDP	PLL control signal output
19	5.0V		GND	
20	5.0V	I	OSCI	PLL ocsillation input
21	5.0V	O	OSCO	PLL ocsillation output
22	5.0V		VCC	
23	5.0V		GND	
24	5.0V	O	OHSYN	Sync separation output
25	5.0V	O	DVDO	Digital sync separation output
26	5.0V	I	VSYN	Virtical sync signal input
27	5.0V	I	GST	Reset input
28	5.0V		GND	
29	5.0V	O	REV	Graduation power control signal output 1
30	5.0V	O	REVV0	Graduation power control signal output 2
31	5.0V	O	GSP1	Gate driver controll signal output 1
32	5.0V	O	GCK	Gate driver controll signal output 2
33	3.3V		GND	
34	3.3V	O	OOR7	R output 7 (MSB)
35	3.3V	O	OOR6	R output 6
36	3.3V	O	OOR5	R output 5
37	3.3V	O	OOR4	R output 4
38	3.3V	O	OOR3	R output 3
39	3.3V	O	OOR2	R output 2
40	3.3V	O	OOR1	R output 1
41	3.3V	O	OOR0	R output 0 (LSB)
42	3.3V		GND	
43	3.3V	O	OOG7	G output 7 (MSB)
44	3.3V	O	OOG6	G output 6
45	3.3V	O	OOG5	G output 5
46	3.3V	O	OOG4	G output 4
47	3.3V	O	OOG3	G output 3
48	3.3V	O	OOG2	G output 2
49	3.3V		GND	
50	3.3V		VCC	

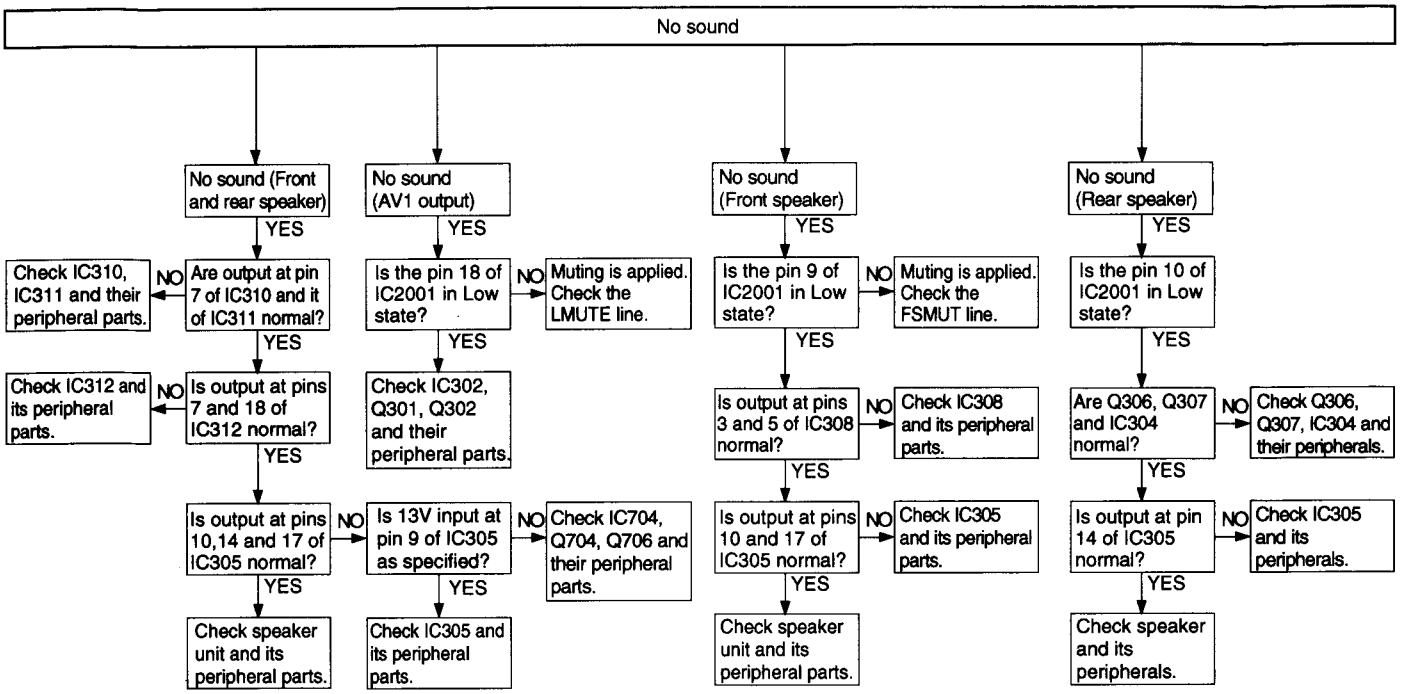
Terminal No.	Voltage	I/O	Signal name	Function
51	3.3V	O	HDCK	SOURCE driver control signal output 1
52	3.3V	O	OCK	SOURCE driver control signal output 2
53	3.3V		GND	
54	3.3V	O	OOG1	G output 1
55	3.3V	O	OOG0	G output 0 (LSB)
56	3.3V	O	OOB7	B output 7 (MSB)
57	3.3V	O	OOB6	B output 6
58	3.3V	O	OOB5	B output 5
59	3.3V	O	OOB4	B output 4
60	3.3V		GND	
61	3.3V	O	OOB3	B output 3
62	3.3V	O	OOB2	B output 2
63	3.3V	O	OOB1	B output 1
64	3.3V	O	OOB0	B output 0 (LSB)
65	3.3V		GND	
66	3.3V	O	SPLS	SOURCE driver control signal output 3
67	3.3V	O	SPRS	SOURCE driver control signal output 4
68	3.3V	O	LBR	SOURCE driver control signal output 5
69	3.3V	O	HGO	SOURCE driver control signal output 6
70	3.3V	I	NBH	CCW/CW inversion input H:Inversion, L:Normal rotation
71	3.3V	I	NTSC	NTSC/PAL selection input H:PAL, L:NTSC
72	3.3V		GND	
73	3.3V	O	TM0	Gate driver control signal output 3
74	3.3V	O	TM1	Test output 1
75	3.3V	O	TM2	Test output 2
76	3.3V		VCC	
77	3.3V		GND	
78	3.3V	I	R0	R input 0 (LSB)
79	3.3V	I	R1	R input 1
80	3.3V	I	R2	R input 2
81	3.3V	I	R3	R input 3
82	3.3V	I	R4	R input 4
83	3.3V	I	R5	R input 5
84	3.3V	I	R6	R input 6
85	3.3V	I	R7	R input 7 (MSB)
86	3.3V		GND	
87	3.3V	I	G0	G input 0 (LSB)
88	3.3V	I	G1	G input 1
89	3.3V	I	G2	G input 2
90	3.3V	I	G3	G input 3
91	3.3V	I	G4	G input 4
92	3.3V	I	G5	G input 5
93	3.3V	I	G6	G input 6
94	3.3V	I	G7	G input 7 (MSB)
95	3.3V	O	TM3	Test output 3
96	3.3V	O	TM4	Test output 4
97	3.3V		GND	
98	3.3V	I	TST8	Test input 8
99	3.3V	I	TST7	Test input 7
100	3.3V	I	TST6	Test input 6

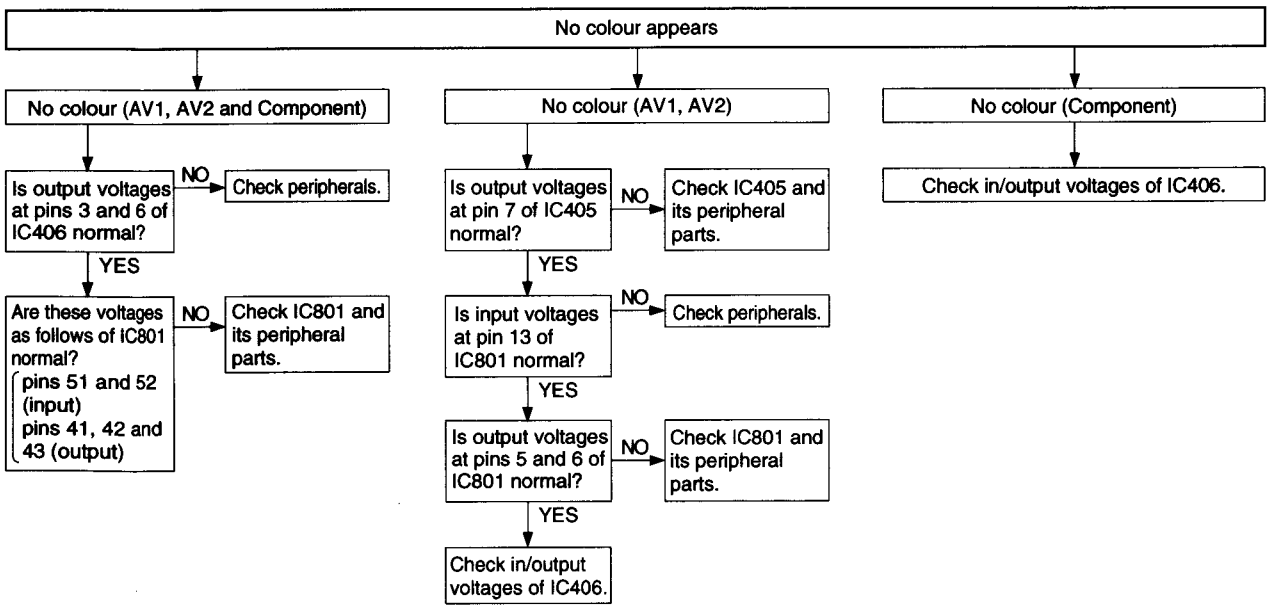
Terminal No.	Voltage	I/O	Signal name	Function
101	3.3V	I	TST5	Test input 5
102	3.3V	I	TST4	Test input 4
103	3.3V	I	TST3	Test input 3
104	3.3V	I	TST2	Test input 2
105	3.3V	I	TST1	Test output 1
106	3.3V	I	TSH	VCI horisontal sync signal input
107	3.3V		GND	
108	3.3V	O	ADCK	A/D converter clock output
109	3.3V	I	TST9	GND
110	3.3V	I	PMODE	Sync signal Positive polarity/Negative polarity selection input H:Positive polarity L:Negative polarity
111	3.3V	I	DINV	Input signal Primary colors/complementary colors selection input H:Complementary colors input, L:Primary colors input
112	3.3V		VCC	
113	3.3V		GND	
114	3.3V	I	B0	B input 0 (LSB)
115	3.3V	I	B1	B input 1
116	3.3V	I	B2	B input 2
117	3.3V	I	B3	B input 3
118	3.3V	I	B4	B input 4
119	3.3V	I	B5	B input 5
120	3.3V	I	B6	B input 6
121	3.3V	I	B7	B input 7 (MSB)
122	3.3V		GND	
123	3.3V	O	OCVD	Virtical synchro signal output
124	3.3V	I	TSV	Virtical synchro signal input
125	3.3V	O	MASK	
126	3.3V	O	OSCO2	Clock output (No use)
127	3.3V	I	OSCI2	Clock input (No use)
128	3.3V		GND	

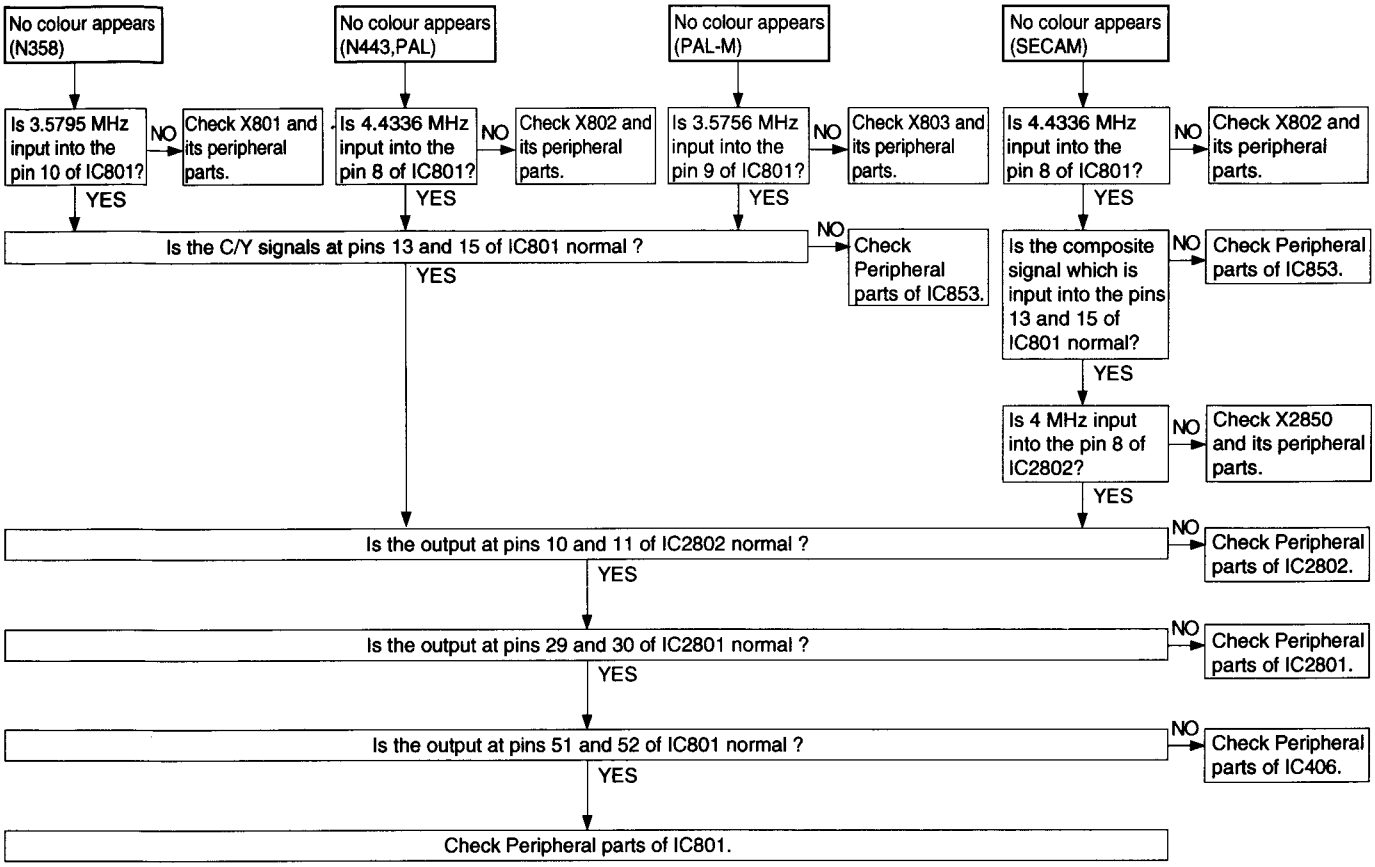
7. TROUBLE SHOOTING



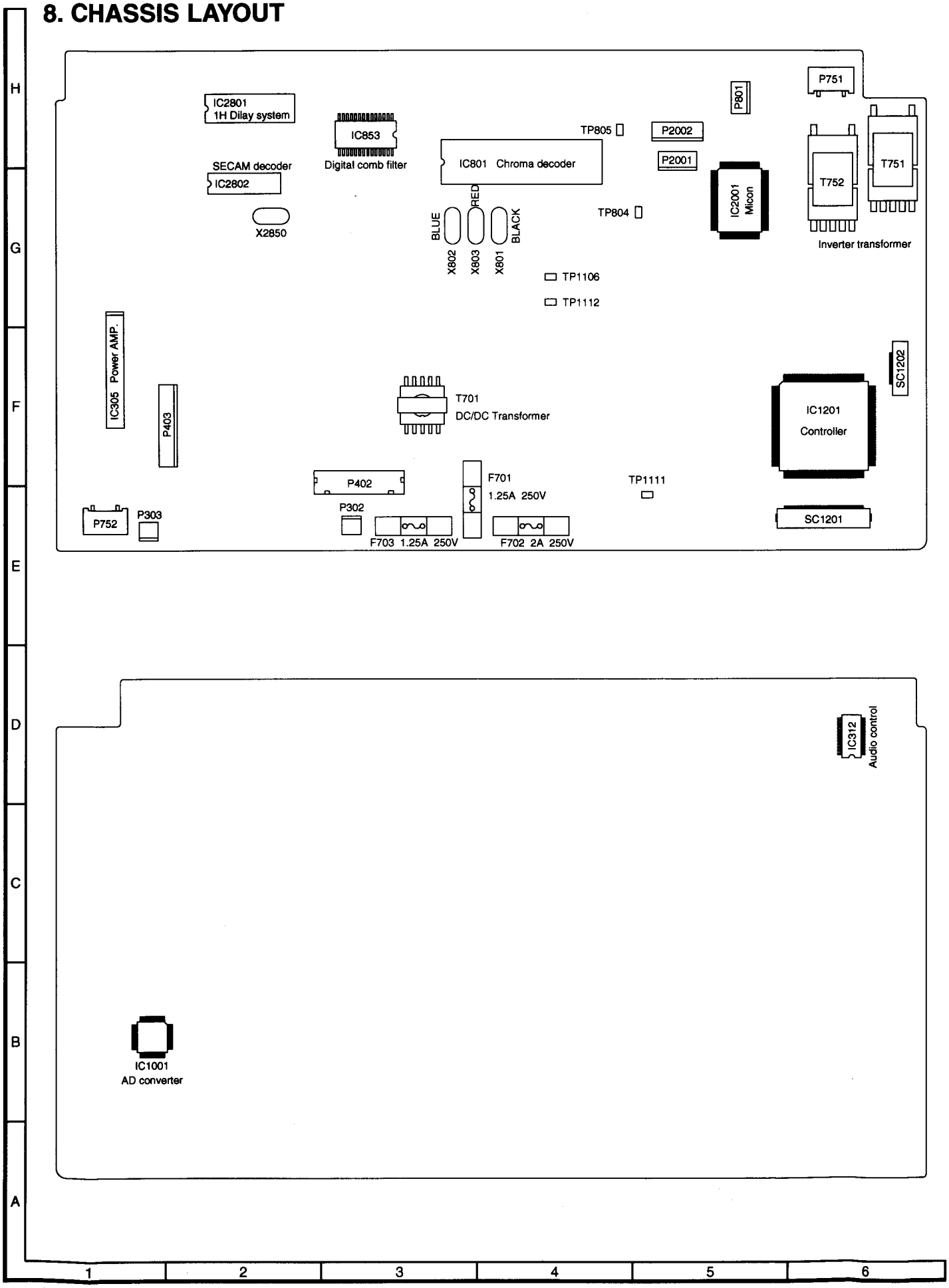



No sound
No sound (Front and rear speaker)
YES
Are output at pin 7 of IC310 and it of IC311 normal?
NO
Check IC310, IC311 and their peripheral parts.
YES
Is output at pins 7 and 18 of IC312 normal?
NO
Check IC312 and its peripheral parts.
YES
Is output at pins 10,14 and 17 of IC305 normal?
NO
YES
Check speaker unit and its peripheral parts.
No sound (AV1 output)
YES
Is the pin 18 of IC2001 in Low state?
NO
Muting is applied. Check the LMUTE line.
YES
Check IC302, Q301, Q302 and their peripheral parts.
Is 13V input at pin 9 of IC305 as specified?
NO
Check IC704, Q704, Q706 and their peripheral parts.
YES
Check IC305 and its peripheral parts.
No sound (Front speaker)
YES
Is the pin 9 of IC2001 in Low state?
NO
Muting is applied. Check the FSMUT line.
YES
Is output at pins 3 and 5 of IC308 normal?
NO
Check IC308 and its peripheral parts.
YES
Is output at pins 10 and 17 of IC305 normal?
NO
Check IC305 and its peripheral parts.
YES
Check speaker unit and its peripheral parts.
No sound (Rear speaker)
YES
Is the pin 10 of IC2001 in Low state?
YES
Are Q306, Q307 and IC304 normal?
NO
Check Q306, Q307, IC304 and their peripherals.
YES
Is output at pin 14 of IC305 normal?
NO
Check IC305 and its peripherals.
YES
Check speaker and its peripherals.


No colour appears
No colour (AV1, AV2 and Component)
Is output voltages at pins 3 and 6 of IC406 normal?
NO
Check peripherals.
YES
Are these voltages as follows of IC801 normal?
pins 51 and 52 (input)
pins 41, 42 and 43 (output)
NO
Check IC801 and its peripheral parts.
No colour (AV1, AV2)
Is output voltages at pin 7 of IC405 normal?
NO
Check IC405 and its peripheral parts.
YES
Is input voltages at pin 13 of IC801 normal?
NO
Check peripherals.
YES
Is output voltages at pins 5 and 6 of IC801 normal?
NO
Check IC801 and its peripheral parts.
YES
Check in/output voltages of IC406.
No colour (Component)
Check in/output voltages of IC406.


No colour appears (N358)
No colour appears (N443,PAL)
No colour appears (PAL-M)
No colour appears (SECAM)
Is 3.5795 MHz input into the pin 10 of IC801?
NO
Check X801 and its peripheral parts.
YES
Is 4.4336 MHz input into the pin 8 of IC801?
NO
Check X802 and its peripheral parts.
YES
Is 3.5756 MHz input into the pin 9 of IC801?
NO
Check X803 and its peripheral parts.
YES
Is 4.4336 MHz input into the pin 8 of IC801?
NO
Check X802 and its peripheral parts.
YES
Is the C/Y signals at pins 13 and 15 of IC801 normal ?
NO
Check Peripheral parts of IC853.
YES
Is the composite signal which is input into the pins 13 and 15 of IC801 normal?
NO
Check Peripheral parts of IC853.
YES
Is 4 MHz input into the pin 8 of IC2802?
NO
Check X2850 and its peripheral parts.
YES
Is the output at pins 10 and 11 of IC2802 normal ?
NO
Check Peripheral parts of IC2802.
YES
Is the output at pins 29 and 30 of IC2801 normal ?
NO
Check Peripheral parts of IC2801.
YES
Is the output at pins 51 and 52 of IC801 normal ?
NO
Check Peripheral parts of IC406.
YES
Check Peripheral parts of IC801.

8. CHASSIS LAYOUT



• DESCRIPTION OF SCHEMATIC DIAGRAM

1. When the exclusive-use AC adapter is used, the color bar signal of color bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 kΩ/V tester.

2. When the exclusive-use AC adapter is used, the color density, lightness and color hue are set to the center position, and the signal of colour bar generator for service is observed to get waveform.
The waveform test point is indicated with the mark (Q) in the wiring diagram.

3. Indication of resistors and capacitors

[Resistor]

Unit: Nonindication ··· Ω, K ··· kΩ,
M ··· MΩ
Error: Nonindication ··· ±10%
J ··· ±5%
F ··· ±1%
D ··· ±0.5%

[Capacitor]

Unit: Nonindication or μ ··· μF,
P or p ··· pF

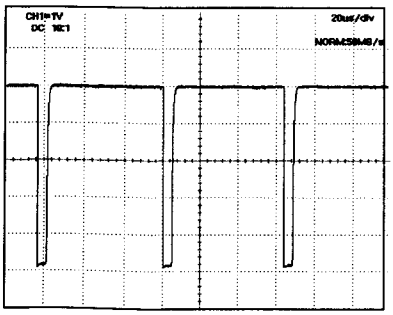
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH " ⚠ " (▒▒▒) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET.
BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

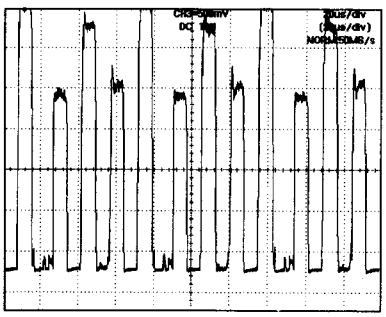
[Item]

Resistor		Capacitor	
Nonindication	Carbon-film resistor	Nonindication	Ceramic capacitor
Ⓒ	Solid resistor	ML	Mylar capacitor
Ⓢ	Metal-oxide-film resistor	PF	Polypropylene
Ⓝ	Metal-film resistor		film capacitor
Ⓦ	Cement resistor	TA	Tantalum capacitor
Ⓣ	Special resistor	ST	Styrol capacitor

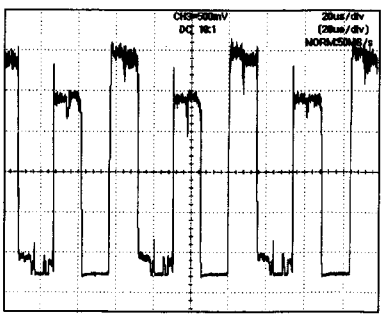
• WAVEFORMS



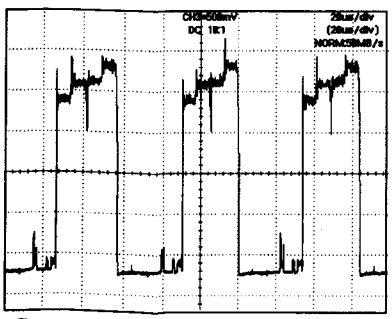
① TP804 CSYNC



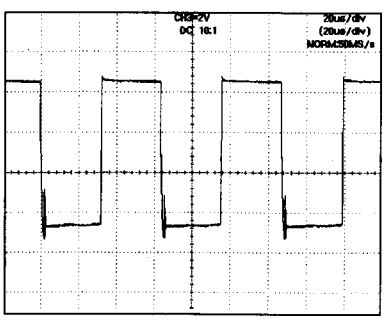
② TP820 B output



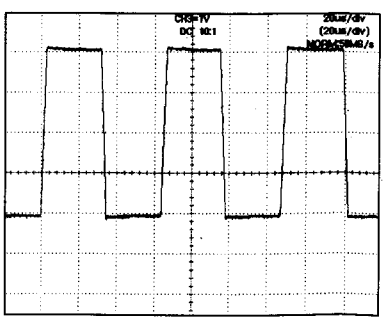
③ TP819 R output



④ TP821 G output

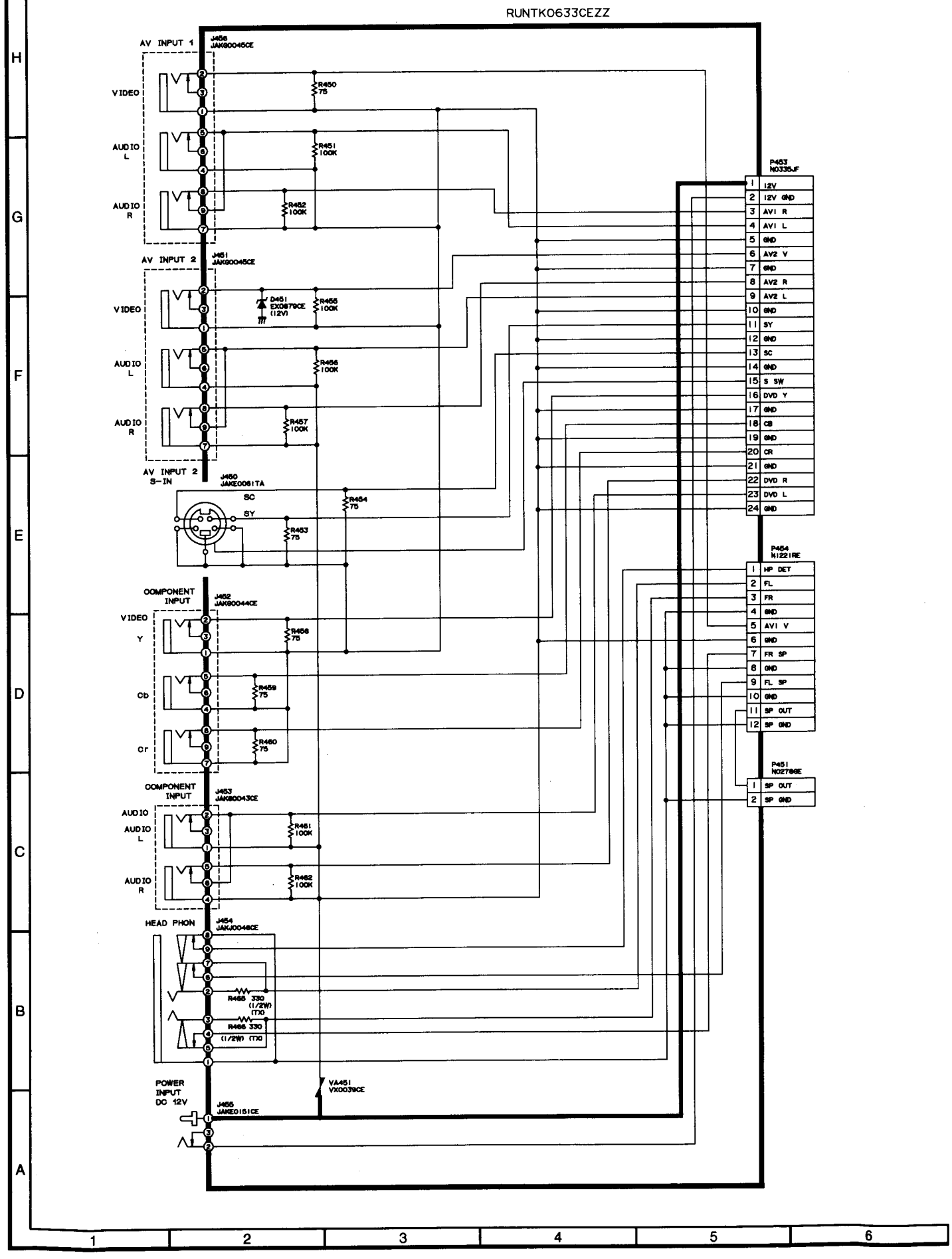


⑤ TP1107 VCOM

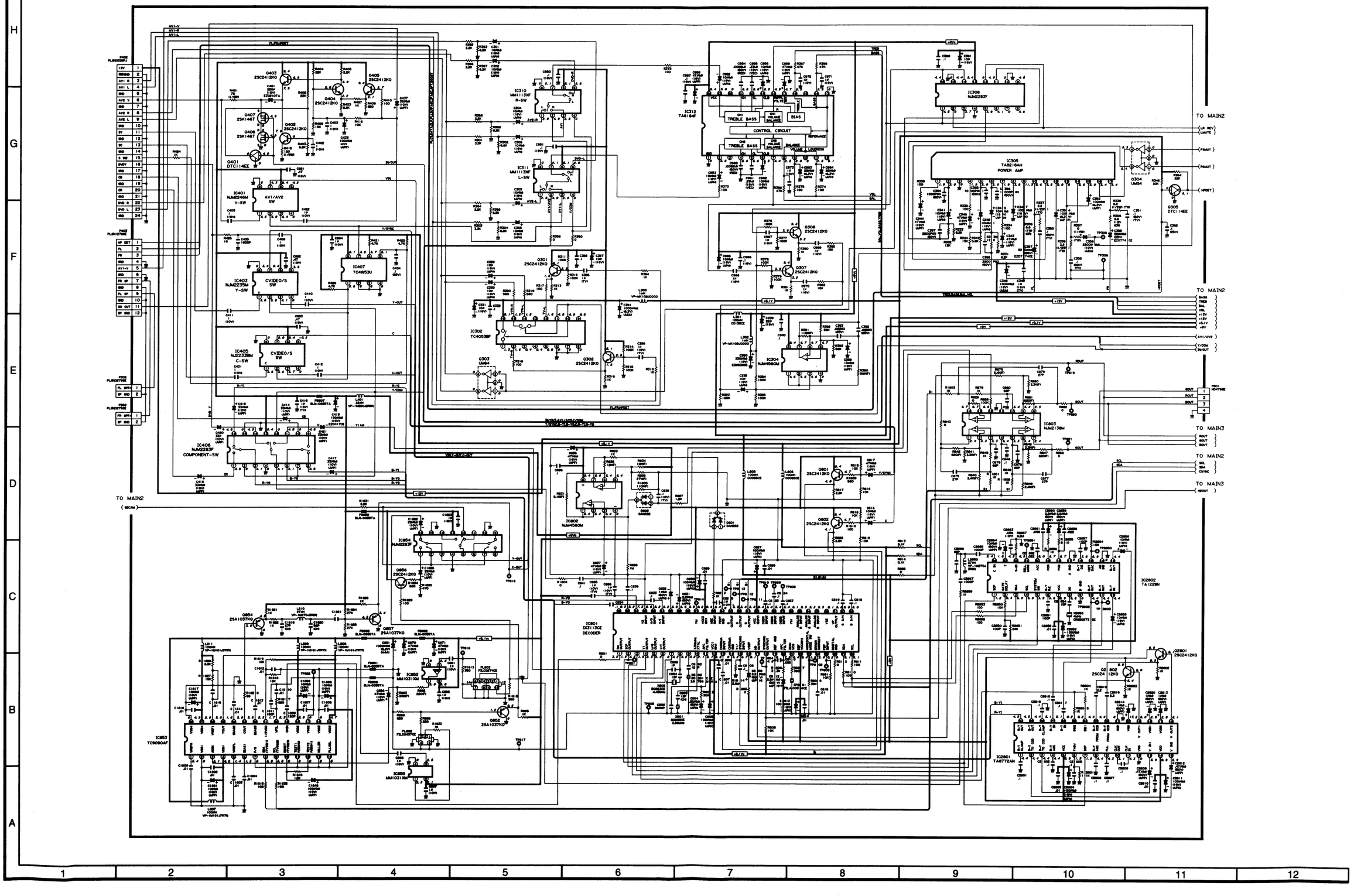


⑥ TP1108 VO

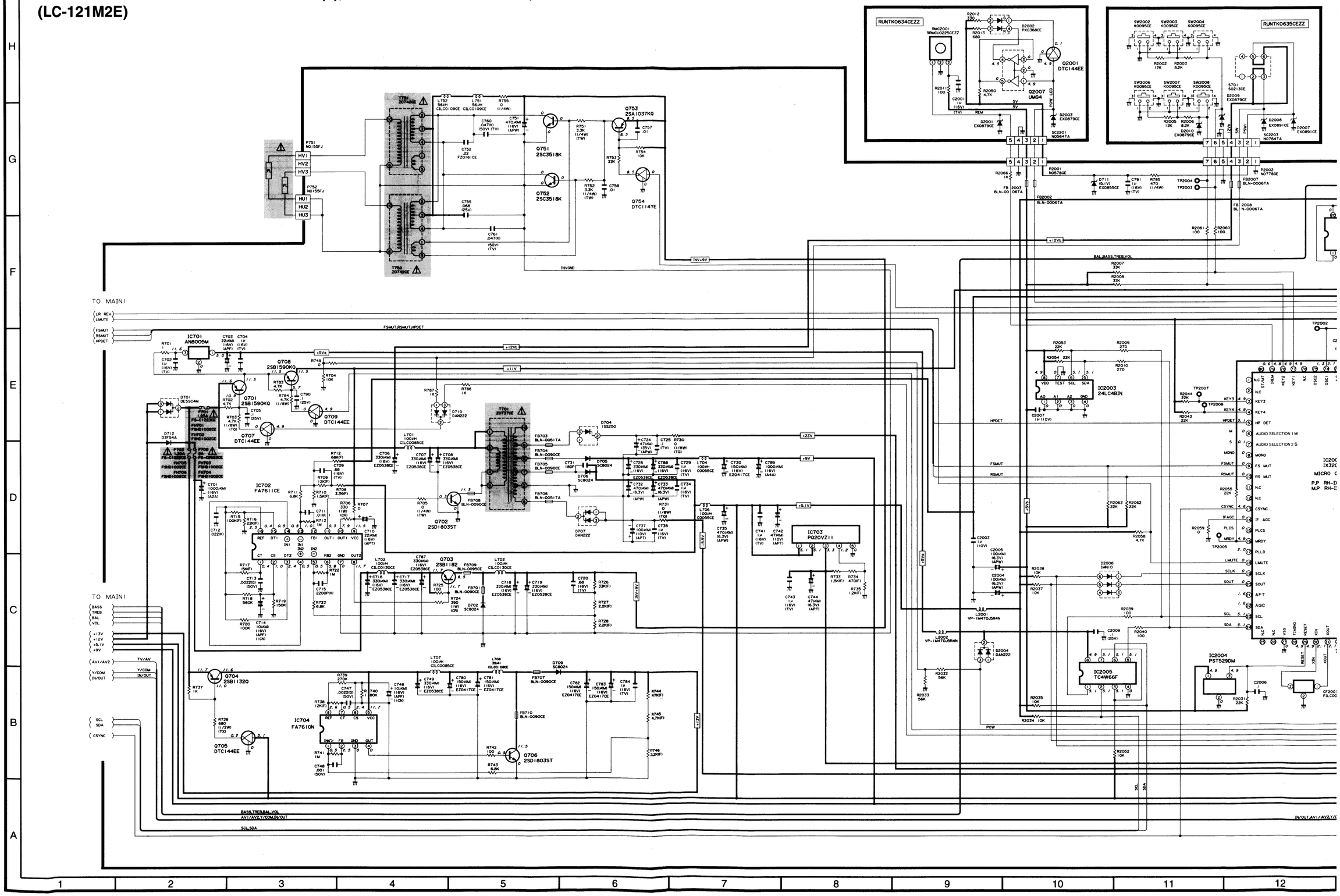
9. SCHEMATIC DIAGRAM: JACK UNIT



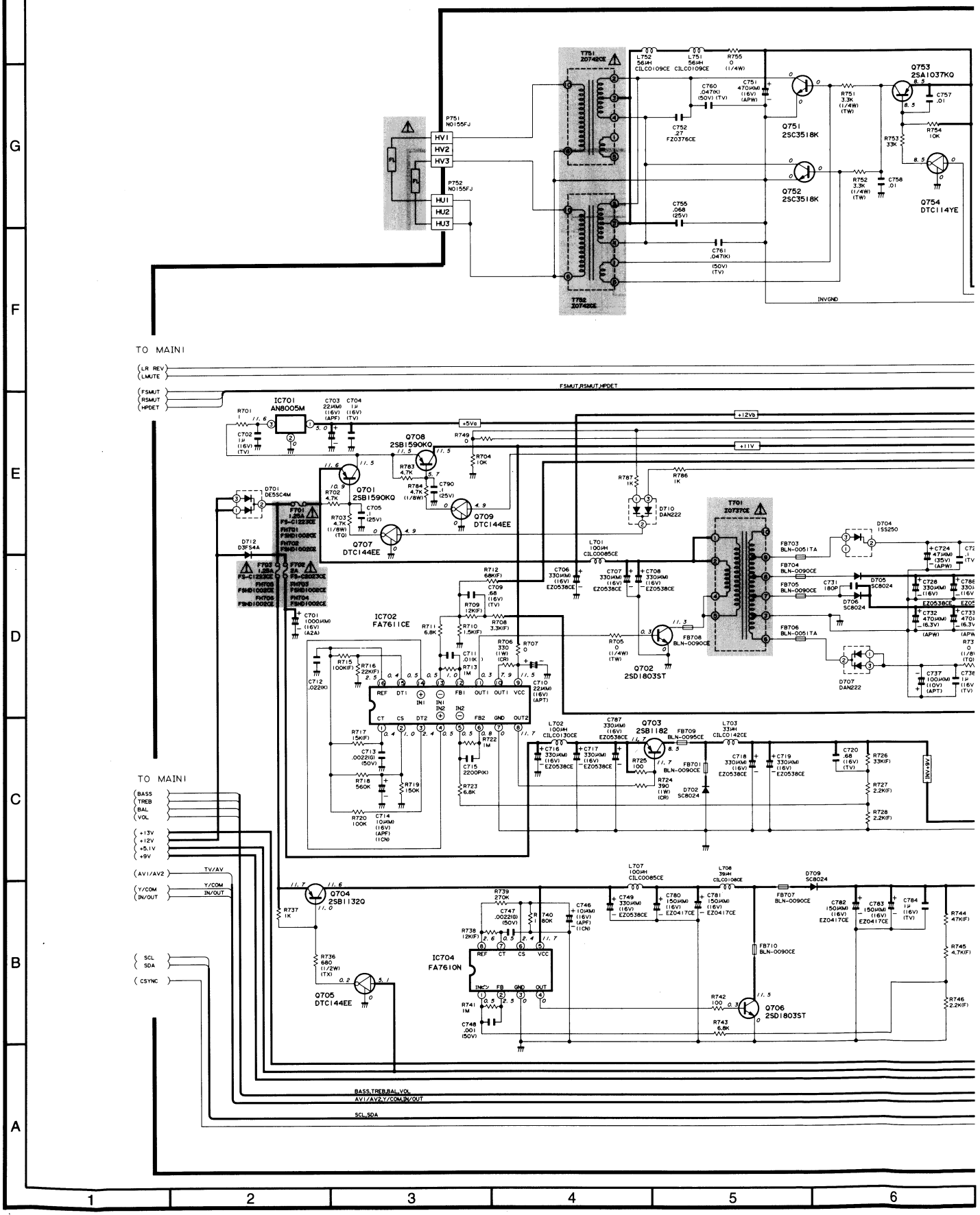
SCHEMATIC DIAGRAM: MAIN CIRCUIT (1)

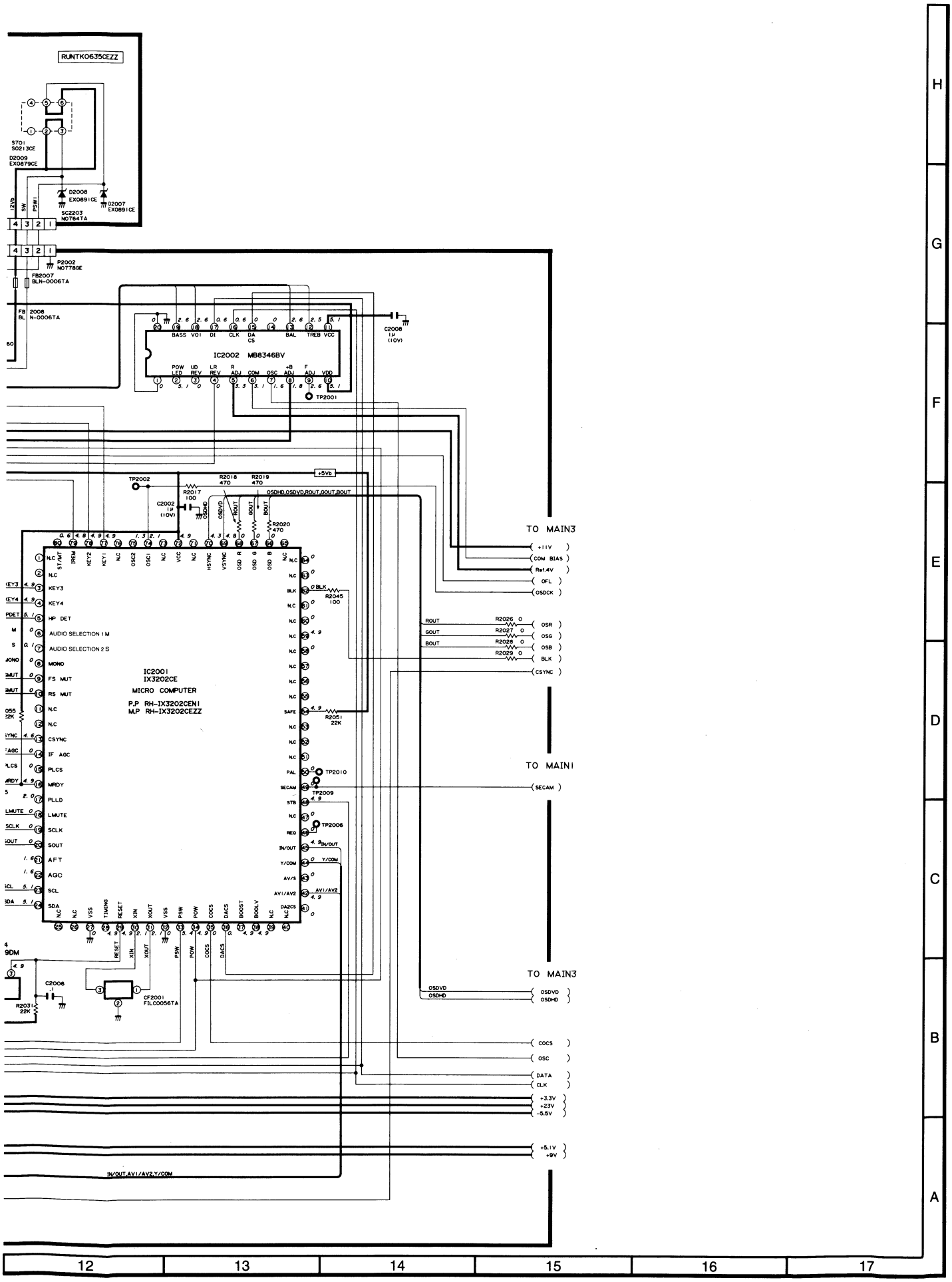


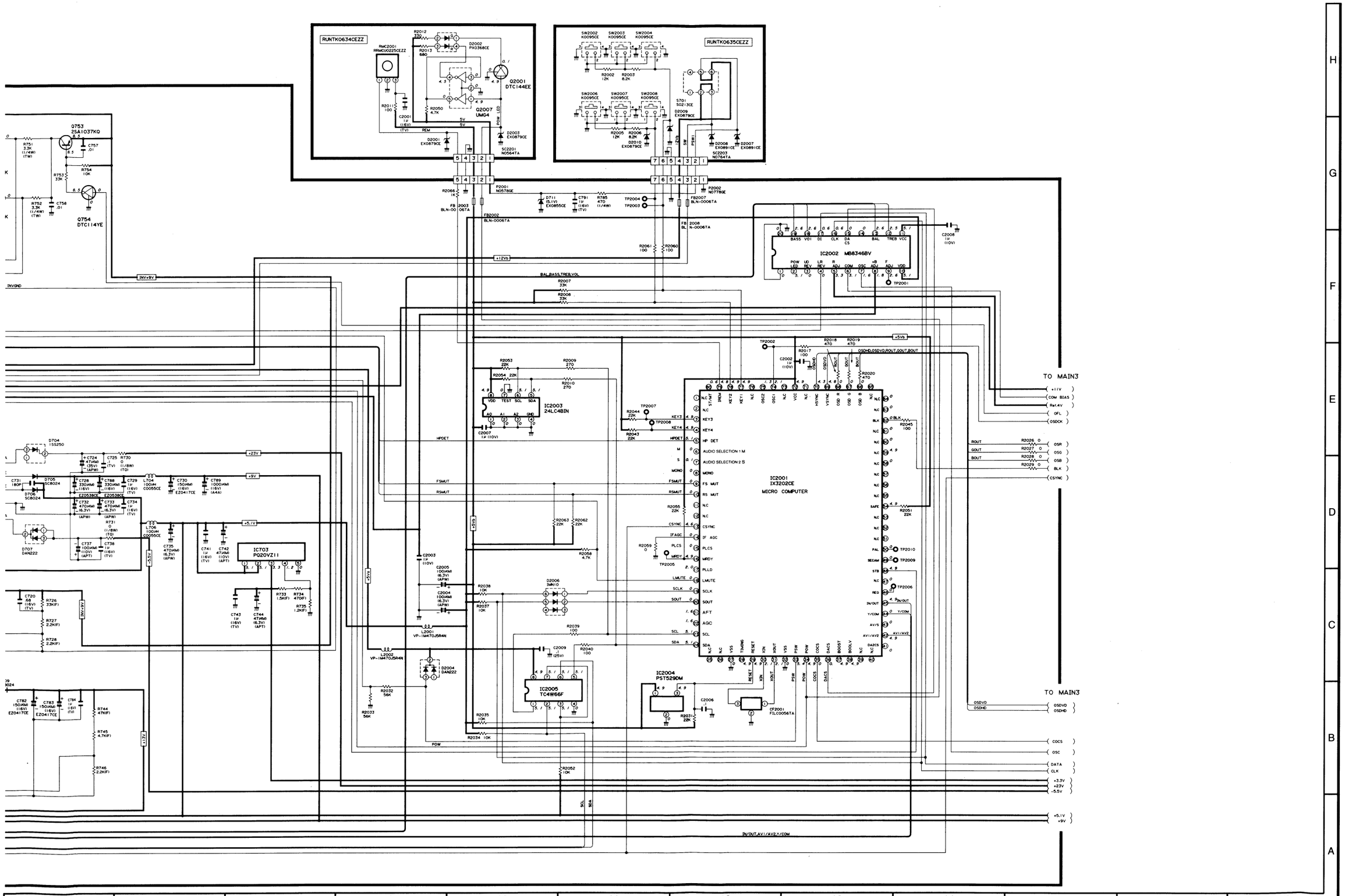
SCHEMATIC DIAGRAM: MAIN CIRCUIT (2), REMOTE CONTROL UNIT, SWITCH UNIT (LC-121M2E)



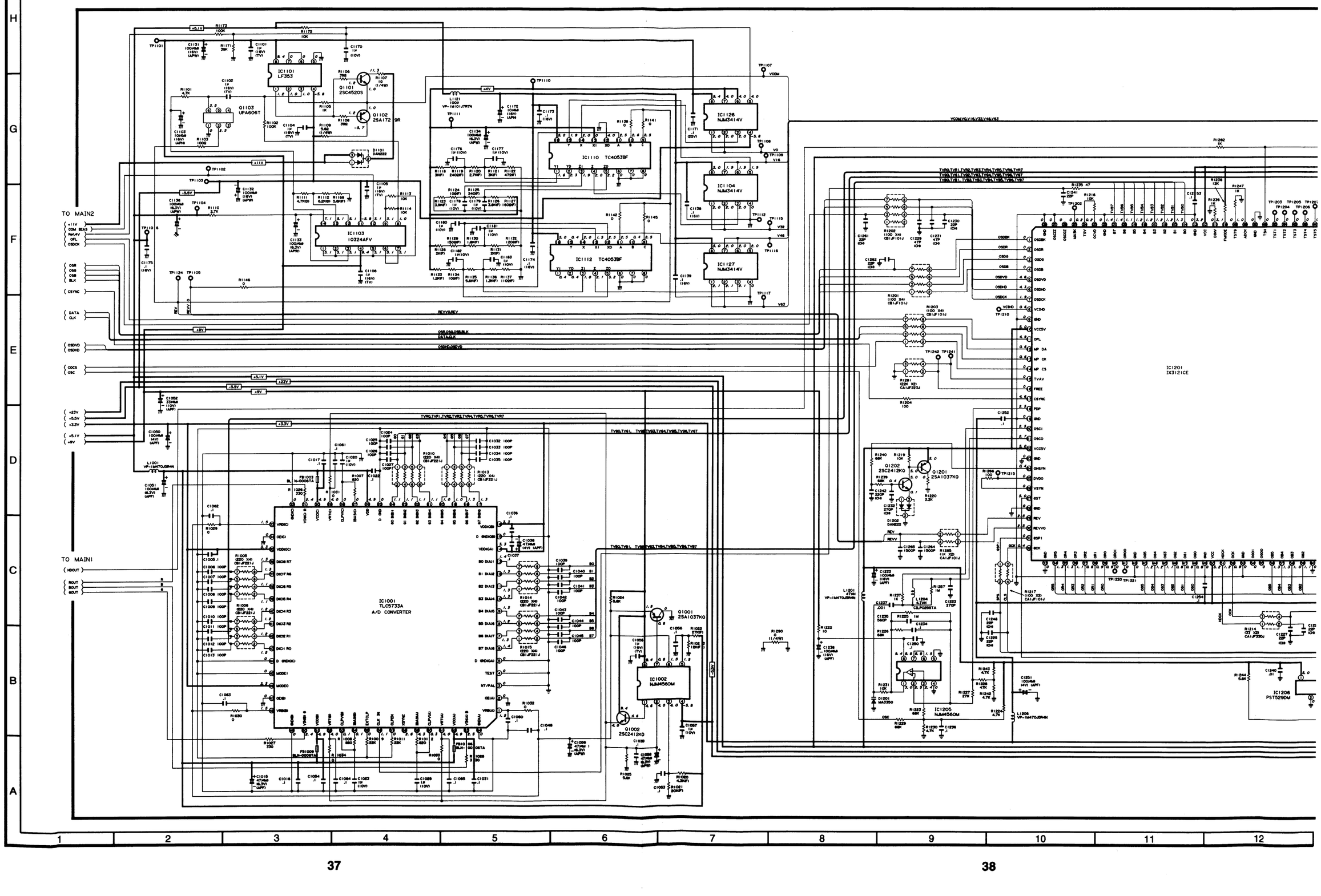
SCHEMATIC DIAGRAM: MAIN CIRCUIT (2), REMOTE CONTROL UNIT, SWITCH UNIT (LC-150M2E)

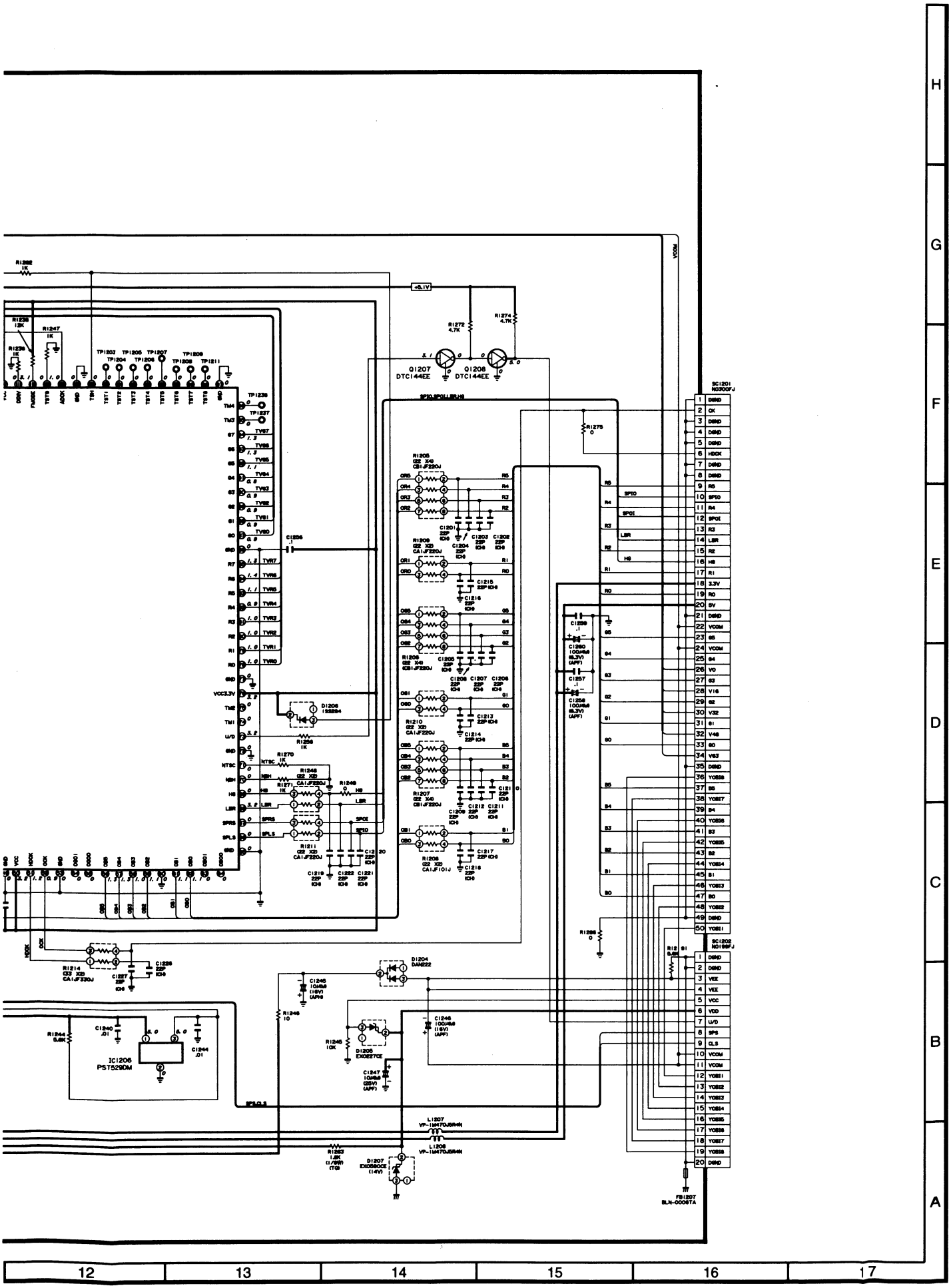



RUNTK0635CEZZ
IC2002 MB8346BV
IC2001
IX3202CE
MICRO COMPUTER
P.P RH-IX3202CEN1
M.P RH-IX3202CEZZ
TO MAIN3
TO MAIN1
TO MAIN3
+5Vb
OSDHD,OSDVD,ROUT,GOUT,BOUT
IN/OUT,AV1/AV2,Y/COM
H
G
F
E
D
C
B
A
12
13
14
15
16
17

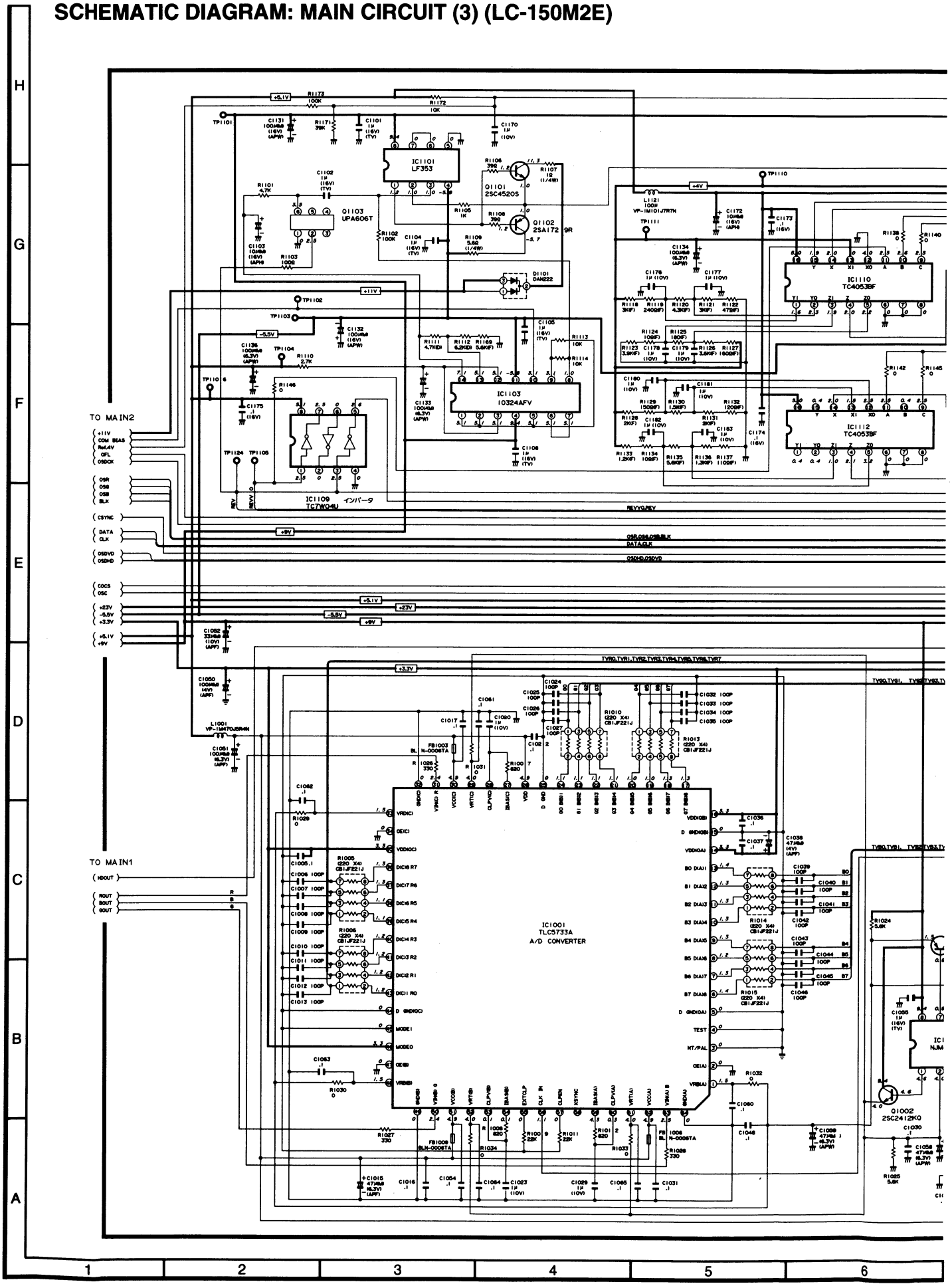

RUNTK0634CEZZ
RUNTK0635CEZZ
IC2001
IX3202CE
MICRO COMPUTER
IC2002
MB8346BV
IC2003
24LC64BIN
IC2004
PST5290M
IC2005
TC4W66F
IC703
PQ20VZ11
TO MAIN3
TO MAIN3
+11V
COM BIAS
Ref.4V
OFL
OSDCK
OSR
OSG
OSB
BLK
CSYNC
OSDVD
OSDHD
COCS
OSC
DATA
CLK
+3.3V
+23V
-5.5V
+5.1V
+9V
INV/OUT,AV1/AV2,Y/COM
BAL,BASS,TREB,VOL
OSDHD,OSDVD,ROUT,GOUT,BOUT
INVGND
+12VS
+5Vs
+23V
+9V
+5.1V
-5.5V
+3.3V
+12V
HPDET
FSMUT
RSMUT
POW
SCL
SDA

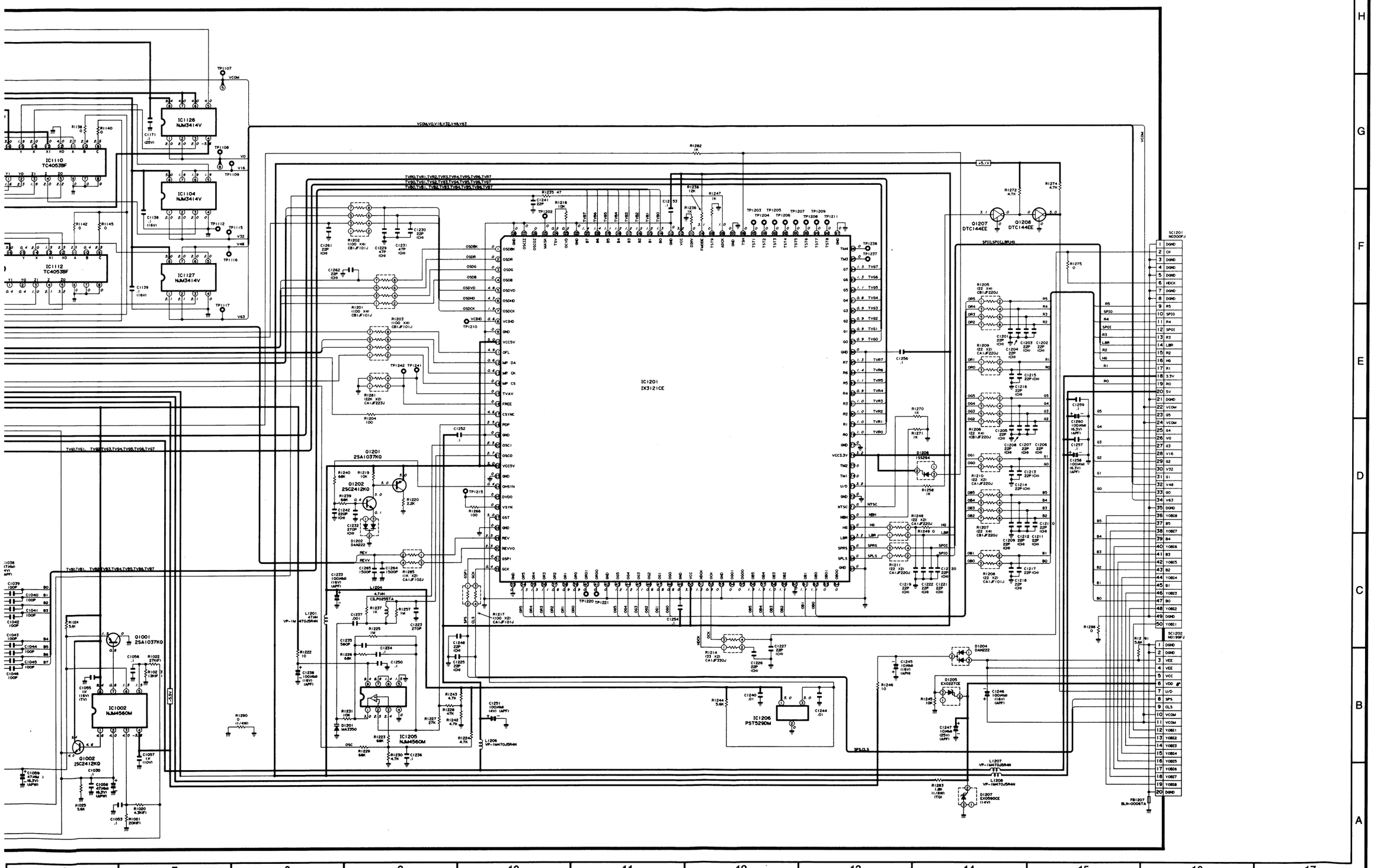
SCHEMATIC DIAGRAM: MAIN CIRCUIT (3) (LC-121M2E)



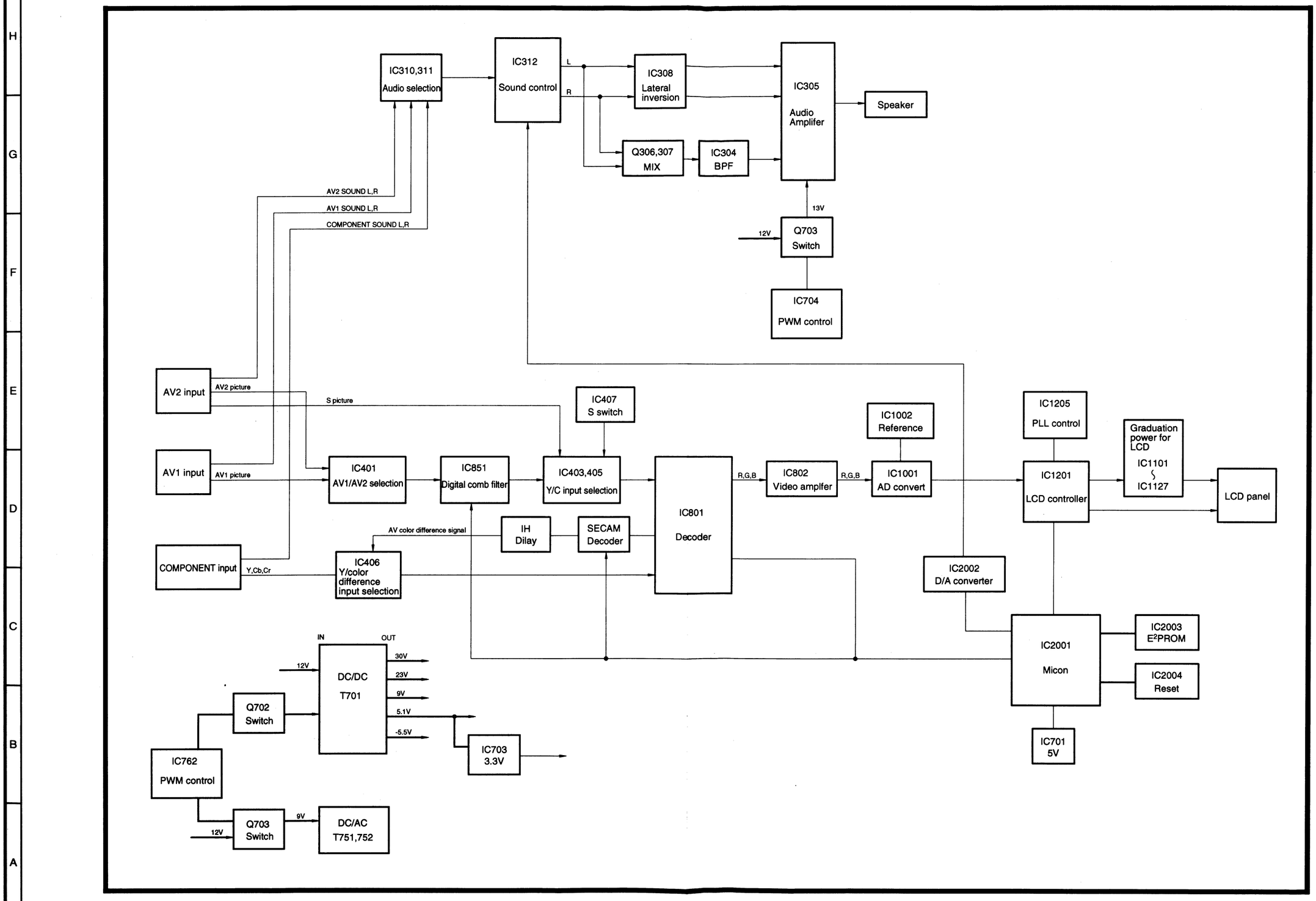

H
G
F
E
D
C
B
A
12
13
14
15
16
17
+5.1V
Q1207 DTC144EE
Q1208 DTC144EE
IC1206 PST5290M
SC1201 N0300FJ
SC1202 N0199FJ
L1207 VP-1M470JSR4N
L1208 VP-1M470JSR4N
FB1207 BLN-0008TA

SCHEMATIC DIAGRAM: MAIN CIRCUIT (3) (LC-150M2E)




IC1201
IX3121CE
IC1126
NJM3414V
IC1104
NJM3414V
IC1127
NJM3414V
IC1110
TC4053BF
IC1112
TC4053BF
IC1002
NJM4560M
IC1205
NJM4560M
IC1206
PST5290M
01201
2SA1037K0
01202
2SC2412K0
01001
2SA1037K0
01002
2SC2412K0
01207
DTC144EE
01208
DTC144EE
D1201
MA3750
D1202
DAN222
D1204
DAN222
D1205
EX0227CE
D1206
1SS294
D1207
EX0590CE
SC1201
NO350OFJ
SC1202
NO199FJ
+5.1V
VCOM
TP1107
TP1108
TP1109
TP1112
TP1115
TP1116
TP1117
TP1202
TP1210
TP1215
TP1220
TP1221
TP1238
TP1237
FB1207
BLM-00067A

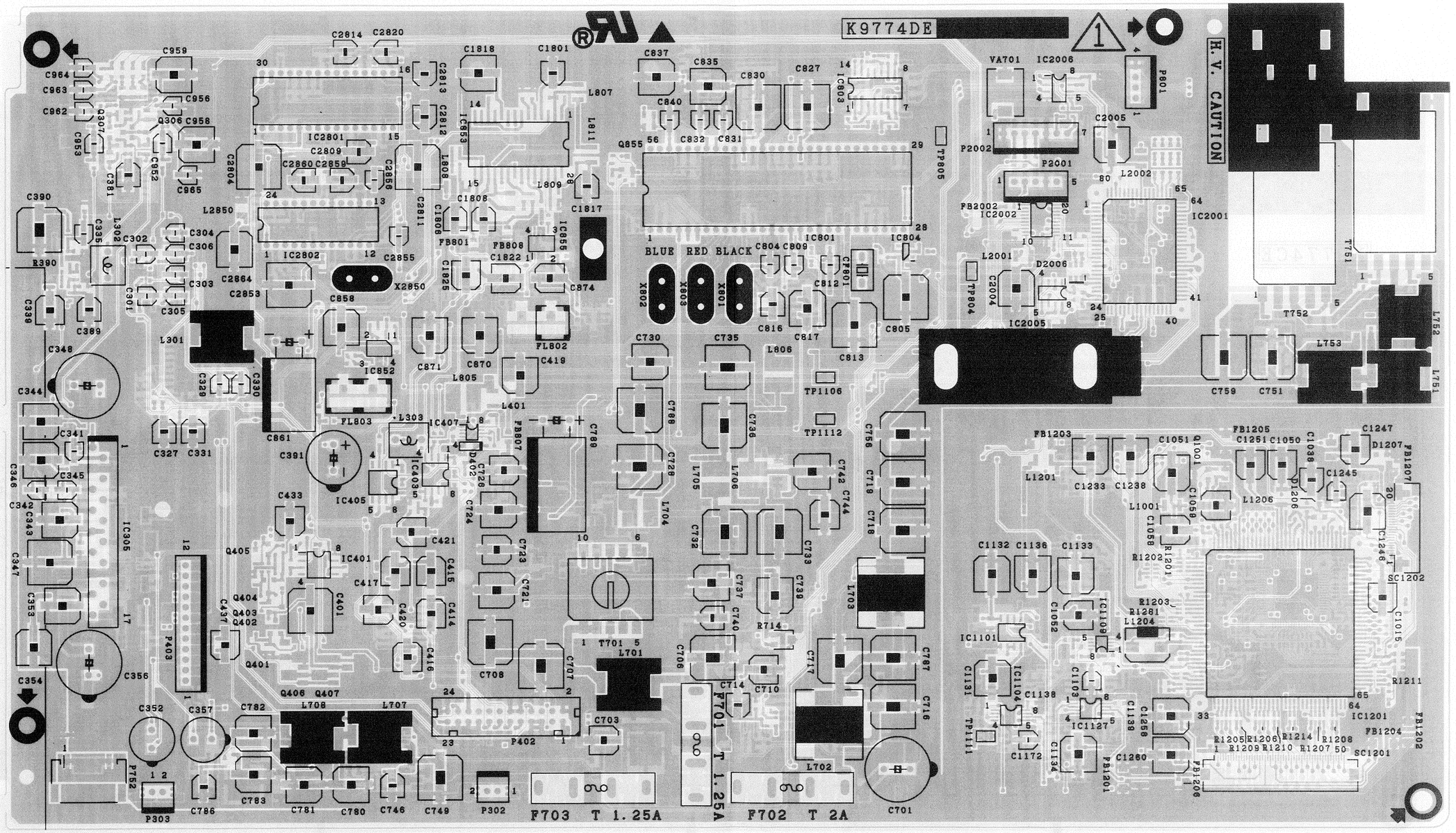
10. BLOCK DIAGRAM



LC-121M2E
LC-150M2E

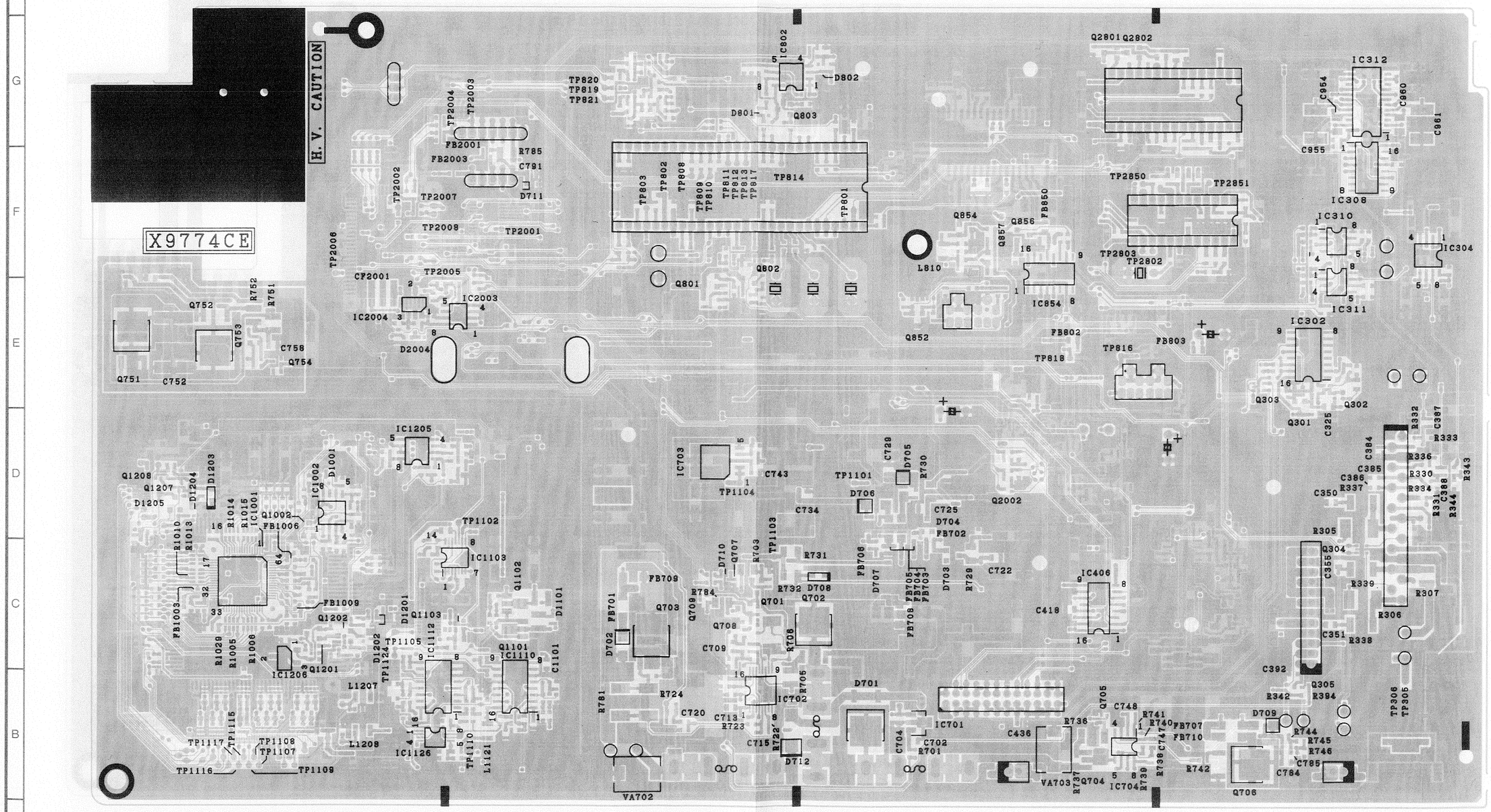
11. PRINTED WIRING BOARD ASSEMBLIES

MAIN UNIIT (Component Side)



LC-121M2E
LC-150M2E

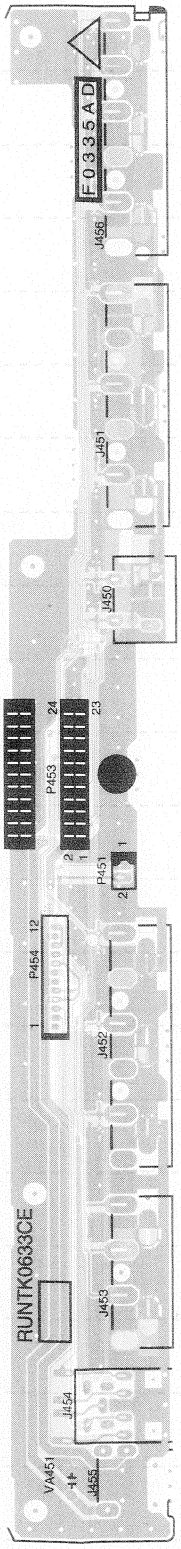
MAIN UNIIT (Wiring Side)



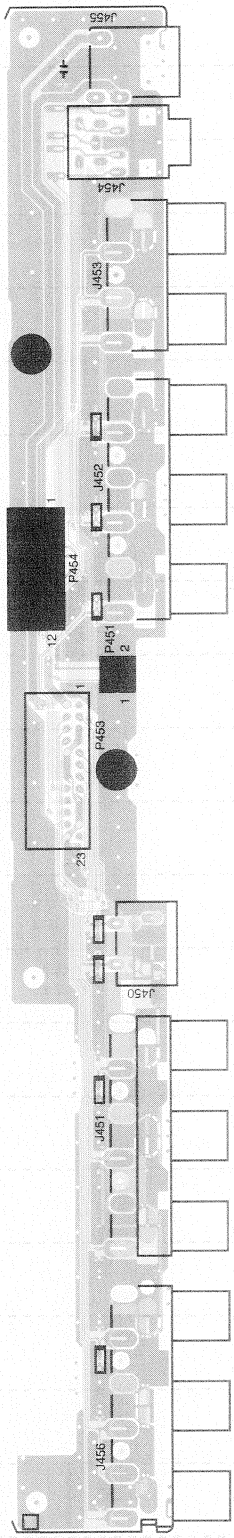
JACK/REMOTE CONTROL RECEPTOR/SWITCH UNIT

JACK P.W.B.

Component Side

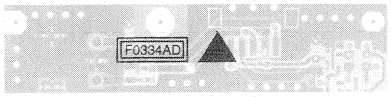


Wiring Side

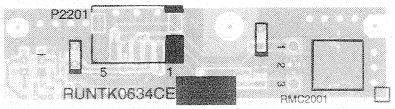


REMOTE CONTROL RECEPTOR UNIT

Component Side

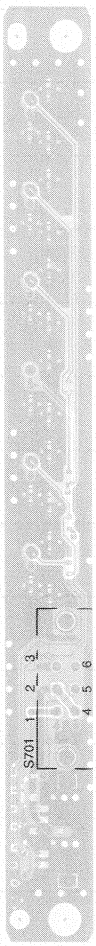


Wiring Side

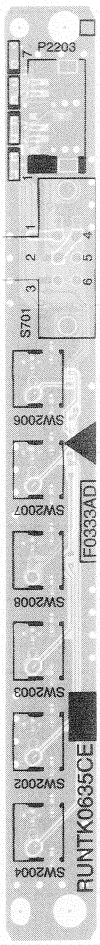


SWITCH UNIT

Component Side



Wiring Side



- M E M O -

12. PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" and shaded area in the Replacement Parts Lists and schematic diagram.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

MARK★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
	LCD MODULE UNIT			
	RLCDT0040CEZZ	J	LCD Module Unit (LC-121M2E)	DD
	RLCDT0043CEZZ	J	LCD Module Unit (LC-150M2E)	DQ
	LAMP UNIT			
⚠	KLMP-0073CEZZ	J	Lamp Unit (LC-121M2E)	AZ
⚠	KLMP-0075CEZZ	J	Lamp Unit (LC-150M2E)	AZ
	PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*			
	DUNTK9774DE03		— Main Unit(LC-121M2E)	—
	DUNTK9774DE04		— Main Unit(LC-150M2E)	—
	RUNTK0633CEZZ		— Jack Unit	—
	RUNTK0634CEZZ		— Remote Control Unit	—
	RUNTK0635CEZZ		— Switch Unit	—

Ref. No.	Part No.	★	Description	Code
	DUNTK9774DE03/04 MAIN UNIT			
	INTEGRATED CIRCUITS			
IC302	VHiTC4053BF-1	J	TC4053BF	AG
IC304	VHiNJM4560M-1	J	NJM4560M	AG
IC305	VHiTA8218AH-1	J	TA8218AH	AP
IC308	VHiNJM2283F-1	J	NJM2283F	AF
IC310	VHiMM1113XF1E	J	MM1113XF	AE
IC311	VHiMM1113XF1E	J	MM1113XF	AE
IC312	VHiTA8184F/-1	J	TA8184F	AN
IC401	VHiNJM2246M-1	J	NJM2246M	AF
IC403	VHiNJM2235M-1	J	NJM2235M	AE
IC405	VHiNJ2233BM-1	J	NJM2233BM	AE
IC406	VHiNJM2283F-1	J	NJM2283F	AF
IC407	VHiTC4W53U/-1	J	TC4W53U	AF
IC701	VHiAN8005M/-1	J	AN8005M	AD
IC702	VHiFA7611CE-1	J	FA7611CE	AL
IC703	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC704	VHiFA7610N/-1	J	FA7610N	AK
IC801	RH-iX3113CEZZ	J	IX3113CE	AZ
IC802	VHiNJM4560M-1	J	NJM4560M	AG
IC803	VHiNJM2138M-1	J	NJM2138M	AN
IC852	VHiMM1031XM-1	J	MM1031XM	AF
IC853	VHiTC9090AF-1	J	TC9090AF	AX
IC854	VHiNJM2283F-1	J	NJM2283F	AF
IC855	VHiMM1031XM-1	J	MM1031XM	AF
IC1001	VHiTLC5733A-1	J	TLC5733A	AY
IC1002	VHiNJM4560M-1	J	NJM4560M	AG
IC1101	VHiLF353M//-1	J	LF353	AG
IC1103	VHi10324AFV-1	J	10324AFV	AF
IC1104	VHiNJM3414V-1	J	NJM3414V	AF
IC1109	VHiTC7W04U/-1	J	TC7W04U(LC-150M2E)	AD
IC1110	VHiTC4053BF-1	J	TC4053BF	AG
IC1112	VHiTC4053BF-1	J	TC4053BF	AG
IC1126	VHiNJM3414V-1	J	NJM3414V	AF
IC1127	VHiNJM3414V-1	J	NJM3414V	AF
IC1201	RH-iX3121CEZZ	J	IX3121CE	AW
IC1205	VHiNJM4560M-1	J	NJM4560M	AG
IC1206	VHiPST529DM-1	J	PST529DM	AE
IC2001	RH-iX3202CEZZ	J	IX3202CE	AY
IC2002	VHiMB8346BV-1	J	MB8346BV	AN
IC2003	VHi24LC4BiN-1	J	24LC4BIN	AL
IC2004	VHiPST529DM-1	J	PST529DM	AE
IC2005	VHiTC4W66F/-1	J	TC4W66F	AE
IC2801	VHiTA8772AN-1	J	TA8772AN	AV
IC2802	VHiTA1229N/-1	J	TA1229N	AX
	TRANSISTORS			
Q301	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q302	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q303	VSUMG4/////-1	J	UMG4	AC
Q304	VSUMG4/////-1	J	UMG4	AC
Q305	VSDTC114EE/-1	J	DTC114EE	AB
Q306	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q307	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q401	VSDTC114EE/-1	J	DTC114EE	AB
Q402	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q403	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q404	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q405	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q406	VS2SK1467//-1	J	2SK1467	AE
Q407	VS2SK1467//-1	J	2SK1467	AE
Q701	VS2SB1590KQ-1	J	2SB1590KQ	AC
Q702	VS2SD1803ST1E	J	2SD1803ST	AE
Q703	VS2SB1182//2E	J	2SB1182	AE
Q704	VS2SB1132Q/-1	J	2SB1132Q	AC
Q705	VSDTC144EE/-1	J	DTC144EE	AA
Q706	VS2SD1803ST1E	J	2SD1803ST	AE
Q707	VSDTC144EE/-1	J	DTC144EE	AA
Q708	VS2SB1590KQ-1	J	2SB1590KQ	AC
Q709	VSDTC144EE/-1	J	DTC144EE	AA
Q751	VS2SC3518K/3E	J	2SC3518K	AE
Q752	VS2SC3518K/3E	J	2SC3518K	AE
Q753	VS2SA1037KQ-1	J	2SA1037KQ	AA

Ref. No.	Part No.	★	Description	Code
	DUNTK9774DE03/04 MAIN UNIT (Continued)			
Q754	VSDTC114YE/-1	J	DTC114YE	AB
Q801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q802	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q852	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q854	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q856	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q857	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1001	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1002	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1101	VS2SC4520S/-1	J	2SC4520S	AF
Q1102	VS2SA1729R/-1	J	2SA1729R	AK
Q1103	VSUPA606T//-1	J	UPA606T	AD
Q1201	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1202	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1207	VSDTC144EE/-1	J	DTC144EE	AA
Q1208	VSDTC144EE/-1	J	DTC144EE	AA
Q2801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2802	VS2SC2412KQ-1	J	2SC2412KQ	AA
	DIODES			
D701	VHDDE5SC4M/-1	J	DE5SC4M	AF
D702	VHDSC8024//-1	J	SC8024	AC
D704	VHD1SS250//1E	J	1SS250	AB
D705	VHDSC8024//-1	J	SC8024	AC
D706	VHDSC8024//-1	J	SC8024	AC
D707	VHDDAN222//-1	J	DAN222	AA
D709	VHDSC8024//-1	J	SC8024	AC
D710	VHDDAN222//-1	J	DAN222	AA
D711	RH-EX0855CEZZ	J	Zener, EX0855CE	AD
D712	VHDD3FS4A//-1	J	D3FS4A	AG
D801	VHDDAN222//-1	J	DAN222	AA
D802	VHDDAN222//-1	J	DAN222	AA
D1101	VHDDAN222//-1	J	DAN222	AA
D1201	VHDMA335Q//-1	J	MA335Q	AD
D1202	VHDDAN222//-1	J	DAN222	AA
D1204	VHDDAN222//-1	J	DAN222	AA
D1205	RH-EX0227CEZZ	J	Zener, EX0227CE	AB
D1206	VHD1SS294//-1	J	1SS294	AC
D1207	RH-EX0590CEZZ	J	Zener, EX0590CE	AB
D2004	VHDDAN222//-1	J	DAN222	AA
D2006	VHDiMN10///-1	J	IMN10	AB
	PACKAGED CIRCUITS			
X801	RCRSB0262CEZZ	J	Crystal, 3.58MHz	AH
X802	RCRSB0263CEZZ	J	Crystal, 4.43MHz	AH
X803	RCRSB0261CEZZ	J	Crystal, 3.5756MHz	AH
X2850	RCRSB0273CEZZ	J	Crystal, 4MHz	AH
	COILS			
CF801	RFiLA0034CEZZ	J	Filter, FILA0034CE	AD
CF2001	RFiLC0056TAZZ	J	Filter, FILC0056TA	AE
FL802	RFiLC0437CEZZ	J	Filter, FILC0437CE	AE
FL803	RFiLC0274CEZZ	J	Filter, FILC0274CE	AG
L301	RCiLC0135CEZZ	J	Coil, 100µH	AF
L302	VP-MK102J0000	J	Peaking 1000µH	AB
L303	VP-MK102J0000	J	Peaking 1000µH	AB
L401	VP-1M220J2R9N	J	Peaking 22µH	AC
L701	RCiLC0085CEZZ	J	Coil, 100µH	AF
L702	RCiLC0130CEZZ	J	Coil, 100µH	AG
L703	RCiLC0130CEZZ	J	Coil, 100µH(LC-121M2E)	AG
L703	RCiLC0142CEZZ	J	Coil, 33µH(LC-150M2E)	AG
L704	RCiLC0055CEZZ	J	Coil, 100µH	AD
L706	RCiLC0055CEZZ	J	Coil, 100µH	AD
L707	RCiLC0085CEZZ	J	Coil, 100µH	AF
L708	RCiLC0108CEZZ	J	Coil, 39µH	AF
L751	RCiLC0109CEZZ	J	Coil, 56µH	AF
L752	RCiLC0109CEZZ	J	Coil, 56µH	AF
L805	RCiLC0055CEZZ	J	Coil, 100µH	AD
L806	RCiLC0055CEZZ	J	Coil, 100µH	AD
L807	VP-1M101J7R7N	J	Peaking 100µH	AC
L808	VP-1M101J7R7N	J	Peaking 100µH	AC
L809	VP-1M101J7R7N	J	Peaking 100µH	AC
L810	VP-1M270J3R8N	J	Peaking 27µH	AC
L811	VP-1M101J7R7N	J	Peaking 100µH	AC
L1001	VP-1M470J5R4N	J	Peaking 47µH	AC
L1121	VP-1M101J7R7N	J	Peaking 100µH	AC
L1201	VP-1M470J5R4N	J	Peaking 47µH	AC
L1204	RCiLP0255TAZZ	J	Coil, 4.7µH	AD
L1206	VP-1M470J5R4N	J	Peaking 47µH	AC
L1207	VP-1M470J5R4N	J	Peaking 47µH	AC
L1208	VP-1M470J5R4N	J	Peaking 47µH	AC
L2001	VP-1M470J5R4N	J	Peaking 47µH	AC
L2002	VP-1M470J5R4N	J	Peaking 47µH	AC
L2850	VP-1M270J3R8N	J	Peaking 27µH	AC
	TRANSFORMERS			
⚠ T701	RTRNZ0737CEZZ	J	Transformer	AM
⚠ T751	RTRNZ0742CEZZ	J	Transformer	AN
⚠ T752	RTRNZ0742CEZZ	J	Transformer	AN
	CAPACITORS			
C301	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C302	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C303	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C304	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C305	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C306	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C325	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C326	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C327	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C328	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C329	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C330	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C331	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C332	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C335	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C339	VCEAPF1CW226M	J	22 16V Electrolytic	AB
C340	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C341	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C342	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C343	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C344	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C345	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C346	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C347	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C348	VCEA2A1CW108M	J	1000 16V Electrolytic	AB
C349	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C350	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C351	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C352	RC-EZ0774CEZZ	J	220 25V Electrolytic	AD
C353	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C354	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C355	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C356	VCEA2A1AW228M	J	2200 10V Electrolytic	AC
C357	RC-EZ0774CEZZ	J	220 25V Electrolytic	AD
C380	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C381	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C382	VCKYCY1EB223K	J	0.022 25V Ceramic	AA
C383	VCKYCY1EB223K	J	0.022 25V Ceramic	AA
C384	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C385	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C386	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C387	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C388	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C389	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C390	RC-EZ0538CEZZ	J	330 16V Electrolytic	AE
C391	VCEA2A0JW108M	J	1000 6.3V Electrolytic	AB
C392	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C401	RC-EZ0210TAZZ	J	220 10V Electrolytic	AC
C402	VCKYCY1AF105Z	J	1 10V Ceramic	AC
C403	VCKYCY1AF105Z	J	1 10V Ceramic	AC
C405	VCKYCY1AF105Z	J	1 10V Ceramic	AC
C409	VCKYCY1AF105Z	J	1 10V Ceramic	AC
C410	VCKYCY1AF105Z	J	1 10V Ceramic	AC
C411	VCKYCY1AF105Z	J	1 10V Ceramic	AC
C412	VCKYCY1AF105Z	J	1 10V Ceramic	AC
C414	VCEAPF1AW336M	J	33 10V Electrolytic	AC

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C415	VCEAPF1AW336M	J	33	10V	Electrolytic	AC
C416	VCEAPF1AW336M	J	33	10V	Electrolytic	AC
C417	VCEAPF1AW336M	J	33	10V	Electrolytic	AC
C418	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C419	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C420	VCEAPF1AW336M	J	33	10V	Electrolytic	AC
C421	VCEAPF1AW336M	J	33	10V	Electrolytic	AC
C422	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C431	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C433	VCEAPF0GW107M	J	100	4V	Electrolytic	AC
C434	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C435	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C437	VCEAPF1AW336M	J	33	10V	Electrolytic	AC
C701	VCEA2A1CW108M	J	1000	16V	Electrolytic	AB
C702	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C703	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C704	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C705	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C706	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C707	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C708	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C709	VCKYTV1CF684Z	J	0.68	16V	Ceramic	AB
C710	VCEAPT1CN226M	J	22	16V	Electrolytic	AC
C711	VCKYCY1EB103K	J	0.01	25V	Ceramic	AA
C712	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C713	VCFRED1HM222G	J	2200p	50V	Ceramic	AD
C714	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C715	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C716	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C717	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C718	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C719	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C720	VCKYTV1CF684Z	J	0.68	16V	Ceramic	AB
C724	VCEAPW1VN476M	J	47	35V	Electrolytic	AE
C725	VCKYTV1HF104Z	J	0.1	50V	Ceramic	AA
C728	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C729	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C730	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C731	VCCCCY1HH181J	J	180p	50V	Ceramic	AA
C732	VCEAPW0JN477M	J	470	6.3V	Electrolytic	AE
C733	VCEAPW0JN477M	J	470	6.3V	Electrolytic	AE
C734	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C735	VCEAPW0JN477M	J	470	6.3V	Electrolytic	AE
C737	VCEAPT1AN107M	J	100	10V	Electrolytic	AD
C738	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C741	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C742	VCEAPT1AN476M	J	47	10V	Electrolytic	AD
C743	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C744	VCEAPT0JN476M	J	47	6.3V	Electrolytic	AC
C746	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C747	VCFRED1HM222G	J	2200p	50V	Ceramic	AD
C748	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C749	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C751	VCEAPW1CN477M	J	470	16V	Electrolytic	AE
C752	RC-FZ0161CEZZ	J	0.22 (LC-121M2E)	50V	Mylar	AF
C752	RC-FZ0376CEZZ	J	0.27 (LC-150M2E)	100V	Mylar	AH
C755	VCKYCY1EF683Z	J	0.068	25V	Ceramic	AA
C757	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C758	VCKYTV1HF103Z	J	0.01	50V	Ceramic	AA
C760	VCKYTV1HB473K	J	0.047	50V	Ceramic	AA
C761	VCKYTV1HB473K	J	0.047	50V	Ceramic	AA
C780	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C781	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C782	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C783	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C784	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C787	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C788	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C789	VCEA4A1CN108M	J	1000	16V	Electrolytic	AD
C790	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C791	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C802	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C803	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C804	VCEAPH1HW224M	J	0.22	50V	Electrolytic	AB
C805	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C806	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C807	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C808	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C809	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C810	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C812	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C813	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C814	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C815	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C816	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C817	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C818	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C819	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C823	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C824	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C825	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C826	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C827	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C828	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C829	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C830	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C831	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C832	VCEAPH1HW105M	J	1	50V	Electrolytic	AB
C833	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C834	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C835	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C836	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C837	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C838	VCKYTV1CF104Z	J	0.1	16V	Ceramic	AA
C839	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C841	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C846	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C858	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C861	VCEA4A0JN108M	J	1000	6.3V	Electrolytic	AD
C870	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C871	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C875	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C876	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C877	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C878	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C879	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C880	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C881	VCKYCY1CF474Z	J	0.47	16V	Ceramic	AB
C882	VCKYCY1CF474Z	J	0.47	16V	Ceramic	AB
C883	VCKYCY1CF474Z	J	0.47	16V	Ceramic	AB
C884	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C885	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C886	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C891	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C892	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C893	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C894	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C895	VCCCCY1HH1R0C	J	1p	50V	Ceramic	AA
C896	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C897	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C950	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C951	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C952	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C953	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C954	VCFRED1HM822J	J	8200p	50V	Ceramic	AD
C955	VCFYEC1CM334J	J	0.33	16V	Ceramic	AE
C956	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C957	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C958	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C959	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C960	VCFRED1HM822J	J	8200p	50V	Ceramic	AD
C961	VCFYEC1CM334J	J	0.33	16V	Ceramic	AE
C962	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C963	VCEAPH0JW226M	J	22	6.3V	Electrolytic	AB
C964	VCEAPH0JW226M	J	22	6.3V	Electrolytic	AB

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Ref. No.	Part No.	★	Description			Code
C965	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C966	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C967	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C968	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C969	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C970	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C971	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C972	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C973	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1005	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1006	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1007	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1008	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1009	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1010	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1011	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1012	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1013	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1015	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C1016	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1017	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1020	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1022	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1023	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1024	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1025	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1026	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1027	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1029	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1030	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1031	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1032	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1033	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1034	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1035	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1036	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1037	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1038	VCEAPF0GW476M	J	47	4V	Electrolytic	AB
C1039	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1040	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1041	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1042	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1043	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1044	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1045	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1046	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1048	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1050	VCEAPF0GW107M	J	100	4V	Electrolytic	AC
C1051	VCEAPF0JN107M	J	100	6.3V	Electrolytic	AD
C1052	VCEAPF1AN336M	J	33	10V	Electrolytic	AD
C1053	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1054	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1055	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1056	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1057	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1058	VCEAPW0JN476M	J	47	6.3V	Electrolytic	AD
C1059	VCEAPW0JN476M	J	47	6.3V	Electrolytic	AD
C1060	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1061	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1062	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1063	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1064	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1065	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1101	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1102	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1103	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C1104	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1105	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1108	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1131	VCEAPW1CN107M	J	100	16V	Electrolytic	AE
C1132	VCEAPW1CN107M	J	100	16V	Electrolytic	AE
C1133	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C1134	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C1136	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C1138	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1139	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1170	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1171	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1172	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C1173	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1174	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1175	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1176	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1177	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1178	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1179	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1180	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1181	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1182	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1183	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1201	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1202	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1203	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1204	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1205	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1206	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1207	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1208	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1209	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1210	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1211	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1212	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1213	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1214	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1215	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1216	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1217	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1218	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1219	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1220	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1221	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1222	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1223	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C1225	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1226	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1227	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1229	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C1230	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1231	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C1232	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C1233	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1234	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1235	VCKYCY1HB561K	J	560p	50V	Ceramic	AA
C1236	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1237	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1238	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1240	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1241	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1242	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C1244	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1245	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C1246	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1247	VCEAPF1EW106M	J	10	25V	Electrolytic	AB
C1248	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1250	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1251	VCEAPF0GW107M	J	100	4V	Electrolytic	AC
C1252	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1253	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1254	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1256	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1257	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1258	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1259	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1260	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1261	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1262	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1264	VCKYCY1HB152K	J	1500p	50V	Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C1265	VCKYCY1HB152K	J	1500p	50V	Ceramic	AA
C1800	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1801	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1802	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1803	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1804	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1805	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1806	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1807	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1808	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1809	VCCCCY1HH121J	J	120p	50V	Ceramic	AA
C1810	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1811	VCCCCY1HH181J	J	180p	50V	Ceramic	AA
C1812	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1813	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1814	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1815	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1816	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1817	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1818	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1819	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C1820	VCCCCY1HH270J	J	56p	50V	Ceramic	AA
C1821	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1822	VCEAPF1AN336M	J	33	10V	Electrolytic	AD
C1823	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C1825	VCEAPF1AN336M	J	33	10V	Electrolytic	AD
C2002	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C2003	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C2004	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C2005	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C2006	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2007	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C2008	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C2009	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2801	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2802	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2803	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2804	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C2805	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2806	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2807	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2808	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2809	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C2810	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2811	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C2812	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C2813	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2814	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2815	VCKYTV1CF225Z	J	2.2	16V	Ceramic	AC
C2816	VCKYTV1CF225Z	J	2.2	16V	Ceramic	AC
C2817	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2818	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2819	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2820	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2850	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2851	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2852	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2853	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C2854	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2855	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C2856	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C2857	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2858	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C2859	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C2860	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C2861	VCKYCY1CF683Z	J	0.068	16V	Ceramic	AA
C2862	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C2863	VCKYCY1CB563K	J	0.056	16V	Ceramic	AB
C2864	VCEAPF1HW106M	J	10	50V	Electrolytic	AB
C2865	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C2866	VCCCCY1HH820J	J	82p	50V	Ceramic	AA
C2867	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA

Ref. No.	Part No.	★	Description			Code
			RESISTORS			
R301	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R302	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R303	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R304	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R305	VRS-CR3AD6R8J	J	6.8	1W	Metal Oxide	AC
R306	VRS-CR3AD6R8J	J	6.8	1W	Metal Oxide	AC
R307	VRS-TW2ED000J	J	0	1/4W	Metal Oxide	AB
R310	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R311	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R312	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R313	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R314	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R315	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R316	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R317	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R318	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R319	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R320	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R323	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R324	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R325	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R330	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R331	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R332	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R333	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R334	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R335	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R336	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R337	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R338	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R339	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R342	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R343	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R344	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R358	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R360	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R362	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R363	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R364	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R365	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R366	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R367	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R368	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R369	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R372	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R373	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R374	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R375	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R376	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R377	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R378	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R379	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R380	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R381	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R382	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R383	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R384	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R386	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R387	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R388	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R390	VRS-CY1JF563F	J	56k	1/16W	Metal Oxide	AA
R391	VRS-CY1JF114F	J	110k	1/16W	Metal Oxide	AA
R392	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R393	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R394	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R401	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R402	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R403	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R404	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R405	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R407	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R408	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R409	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R410	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description			Code
R415	VRS-TQ2BD121J	J	120	1/8W	Metal Oxide	AA
R416	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R421	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R422	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R423	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R424	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R425	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R426	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R701	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R702	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R703	VRS-TQ2BD472J	J	4.7k	1/8W	Metal Oxide	AA
R704	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R705	VRS-TW2ED000J	J	0	1/4W	Metal Oxide	AB
R706	VRS-CR3AD331J	J	330	1W	Metal Oxide	AC
R707	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R708	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R709	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R710	VRS-CY1JF152F	J	1.5k	1/16W	Metal Oxide	AA
R711	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R712	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R713	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R715	VRS-CY1JF104F	J	100k	1/16W	Metal Oxide	AA
R716	VRS-CY1JF223F	J	22k	1/16W	Metal Oxide	AA
R717	VRS-CY1JF153F	J	15k	1/16W	Metal Oxide	AA
R718	VRS-CY1JF564J	J	560k	1/16W	Metal Oxide	AA
R719	VRS-CY1JF154J	J	150k	1/16W	Metal Oxide	AA
R720	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R722	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R723	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R724	VRS-CR3AD391J	J	390	1W	Metal Oxide	AC
R725	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R726	VRS-CY1JF333F	J	33k	1/16W	Metal Oxide	AA
R727	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R728	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R730	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R731	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R733	VRS-CY1JF152F	J	1.5k	1/16W	Metal Oxide	AA
R734	VRS-CY1JF471F	J	470	1/16W	Metal Oxide	AA
R735	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R736	VRS-TX2HF681J	J	680	1/2W	Metal Oxide	AA
R737	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R738	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R739	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R740	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R741	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R742	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R743	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R744	VRS-CY1JF473F	J	47k	1/16W	Metal Oxide	AA
R745	VRS-CY1JF472F	J	4.7k	1/16W	Metal Oxide	AA
R746	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R749	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R751	VRS-TW2ED332J	J	3.3k	1/4W	Metal Oxide	AB
R752	VRS-TW2ED332J	J	3.3k	1/4W	Metal Oxide	AB
R753	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R754	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R755	VRS-TW2ED000J	J	0	1/4W	Metal Oxide	AB
R783	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R784	VRS-TQ2BD472J	J	4.7k	1/8W	Metal Oxide	AA
R785	VRS-TW2ED471J	J	470	1/4W	Metal Oxide	AA
R786	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R787	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R801	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R802	VRS-CY1JF303J	J	30k	1/16W	Metal Oxide	AA
R803	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R805	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R806	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R807	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R809	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R810	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R811	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R812	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R813	VRS-CY1JF512J	J	5.1k	1/16W	Metal Oxide	AA
R814	VRS-CY1JF512J	J	5.1k	1/16W	Metal Oxide	AA
R815	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R816	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R817	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R818	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R819	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R820	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R823	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R826	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R827	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R828	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R829	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R831	VRS-CY1JF512F	J	5.1k	1/16W	Metal Oxide	AA
R832	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R833	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R834	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R836	VRS-CY1JF273F	J	27k	1/16W	Metal Oxide	AA
R840	VRS-CY1JF242F	J	2.4k	1/16W	Metal Oxide	AA
R841	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R842	VRS-CY1JF621F	J	620	1/16W	Metal Oxide	AA
R843	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R845	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R846	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R847	VRS-CY1JF621F	J	620	1/16W	Metal Oxide	AA
R848	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R849	VRS-CY1JF242F	J	2.4k	1/16W	Metal Oxide	AA
R850	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R868	VRS-CY1JF681J	J	820	1/16W	Metal Oxide	AA
R878	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R879	VRS-CY1JF242F	J	2.4k	1/16W	Metal Oxide	AA
R880	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R881	VRS-CY1JF621F	J	620	1/16W	Metal Oxide	AA
R882	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R885	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R888	VRS-CY1JF331J	J	220	1/16W	Metal Oxide	AA
R891	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R892	VRS-CY1JF221F	J	220	1/16W	Metal Oxide	AA
R893	VRS-CY1JF331F	J	330	1/16W	Metal Oxide	AA
R895	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1005	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1006	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1007	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R1008	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R1009	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1010	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1011	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1012	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R1013	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1014	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1015	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1020	VRS-CY1JF432F	J	4.3k	1/16W	Metal Oxide	AA
R1021	VRS-CY1JF203F	J	20k	1/16W	Metal Oxide	AA
R1022	VRS-CY1JF273F	J	27k	1/16W	Metal Oxide	AA
R1023	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R1024	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1025	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1026	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1027	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1028	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1029	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1030	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1031	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1032	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1033	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1034	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1101	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1102	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1103	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1105	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1106	VRS-CY1JF390J	J	39	1/16W	Metal Oxide	AA
R1107	VRS-TW2ED1R0J	J	1	1/4W	Metal Oxide	AB
R1108	VRS-CY1JF390J	J	39	1/16W	Metal Oxide	AA
R1109	VRS-TW2ED5R6J	J	5.6	1/4W	Metal Oxide	AA
R1110	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R1111	VRN-CY1JF472D	J	4.7k	1/16W	Metal Film	AA

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Ref. No.	Part No.	★	Description			Code
R1112	VRN-CY1JF622D	J	6.2k	1/16W	Metal Film	AA
R1113	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1114	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1118	VRS-CY1JF302F	J	3k	1/16W	Metal Oxide	AA
R1119	VRS-CY1JF241F	J	240	1/16W	Metal Oxide	AA
R1120	VRS-CY1JF272F	J	2.7k (LC-121M2E)	1/16W	Metal Oxide	AA
R1120	VRS-CY1JF432F	J	4.3k (LC-150M2E)	1/16W	Metal Oxide	AA
R1121	VRS-CY1JF302F	J	3k	1/16W	Metal Oxide	AA
R1122	VRS-CY1JF470F	J	47	1/16W	Metal Oxide	AA
R1123	VRS-CY1JF392F	J	3.9k	1/16W	Metal Oxide	AA
R1124	VRS-CY1JF100F	J	10	1/16W	Metal Oxide	AA
R1125	VRS-CY1JF241F	J	240 (L-121M2E)	1/16W	Metal Oxide	AA
R1125	VRS-CY1JF181F	J	180 (L-150M2E)	1/16W	Metal Oxide	AA
R1126	VRS-CY1JF362F	J	3.6k	1/16W	Metal Oxide	AA
R1127	VRS-CY1JF161F	J	160	1/16W	Metal Oxide	AA
R1128	VRS-CY1JF202F	J	2k	1/16W	Metal Oxide	AA
R1129	VRS-CY1JF151F	J	150	1/16W	Metal Oxide	AA
R1130	VRS-CY1JF162F	J	1.6k (LC-121M2E)	1/16W	Metal Oxide	AA
R1130	VRS-CY1JF152F	J	1.5k (LC-150M2E)	1/16W	Metal Oxide	AA
R1131	VRS-CY1JF202F	J	2k	1/16W	Metal Oxide	AA
R1132	VRS-CY1JF121F	J	120	1/16W	Metal Oxide	AA
R1133	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R1134	VRS-CY1JF100F	J	10	1/16W	Metal Oxide	AA
R1135	VRS-CY1JF562F	J	5.6k	1/16W	Metal Oxide	AA
R1136	VRS-CY1JF132F	J	1.3k	1/16W	Metal Oxide	AA
R1137	VRS-CY1JF111F	J	110	1/16W	Metal Oxide	AA
R1138	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1140	VRS-CY1JF000J	J	0 (LC-150M2E)	1/16W	Metal Oxide	AA
R1141	VRS-CY1JF000J	J	0 (LC-121M2E)	1/16W	Metal Oxide	AA
R1142	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1145	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1146	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1169	VRS-CY1JF562F	J	5.6k	1/16W	Metal Oxide	AA
R1171	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R1172	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1173	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1201	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1202	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1203	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1204	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1205	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R1206	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R1207	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R1208	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1209	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1210	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1211	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R1214	VRS-CA1JF330J	J	33	1/16W	Metal Oxide	AB
R1216	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1217	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R1219	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1220	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1222	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1223	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1224	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1225	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R1226	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1227	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1228	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1229	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1230	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1231	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1235	VRS-CY1JF470J	J	47	1/16W	Metal Oxide	AA
R1236	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1237	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1238	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R1239	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1240	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1242	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1243	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1244	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1245	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1246	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1247	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1248	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R1249	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1257	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R1258	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1266	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1270	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1271	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1272	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1274	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1275	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1281	VRS-CA1JF223J	J	22k	1/16W	Metal Oxide	AA
R1282	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1283	VRS-TQ2BD182J	J	1.8k	1/8W	Metal Oxide	AA
R1285	VRS-CA1JF102J	J	1k	1/16W	Metal Oxide	AA
R1286	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1290	VRS-TW2ED000J	J	0	1/4W	Metal Oxide	AB
R1291	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1801	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1802	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1803	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1804	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1805	VRS-CY1JF114F	J	110k	1/16W	Metal Oxide	AA
R1809	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R1810	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1812	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R1813	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R1814	VRS-CY1JF225J	J	2.2M	1/16W	Metal Oxide	AA
R1815	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1816	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R1817	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R1818	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1819	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1820	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R1821	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1822	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1824	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1825	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1826	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1827	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R1828	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R1829	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1830	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R1831	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1832	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1833	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1834	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R2008	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R2009	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R2010	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R2017	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2018	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R2019	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R2020	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R2026	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2027	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2028	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2029	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2031	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2032	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R2033	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R2034	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2035	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2037	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2038	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

DUNTK9774DE03/04
MAIN UNIT (Continued)

R2039	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2040	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2043	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2044	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2045	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2051	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2052	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2053	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2054	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2055	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2058	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2059	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2060	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2061	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2062	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2063	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2066	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2801	VRS-CY1JF113J	J	11k	1/16W	Metal Oxide	AA
R2802	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2803	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2804	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2805	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2850	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2851	VRS-CY1JF243J	J	24k	1/16W	Metal Oxide	AA
R2852	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2853	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2854	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2855	VRS-CY1JF511J	J	510	1/16W	Metal Oxide	AA
R2856	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2857	VRS-CY1JF825J	J	8.2M	1/16W	Metal Oxide	AA
R2858	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA

FUSES AND BALUNES

FB701	RBLN-0090CEZZ	J	Balun, BLN-0090CE		AD
FB703	RBLN-0051TAZZ	J	Balun, BLN-0051TA		AC
FB704	RBLN-0090CEZZ	J	Balun, BLN-0090CE		AD
FB705	RBLN-0090CEZZ	J	Balun, BLN-0090CE		AD
FB706	RBLN-0051TAZZ	J	Balun, BLN-0051TA		AC
FB707	RBLN-0090CEZZ	J	Balun, BLN-0090CE		AD
FB708	RBLN-0090CEZZ	J	Balun, BLN-0090CE		AD
FB709	RBLN-0095CEZZ	J	Balun, BLN-0095CE		AD
FB710	RBLN-0090CEZZ	J	Balun, BLN-0090CE		AD
FB801	RBLN-0035TAZZ	J	Balun, BLN-0035TA		AB
FB802	RBLN-0035TAZZ	J	Balun, BLN-0035TA		AB
FB803	RBLN-0035TAZZ	J	Balun, BLN-0035TA		AB
FB807	RBLN-0035TAZZ	J	Balun, BLN-0035TA		AB
FB808	RBLN-0035TAZZ	J	Balun, BLN-0035TA		AB
FB850	RBLN-0035TAZZ	J	Balun, BLN-0035TA		AB
FB1003	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
FB1006	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
FB1009	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
FB1207	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
FB2002	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
FB2003	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
FB2007	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
FB2008	RBLN-0006TAZZ	J	Balun, BLN-0006TA		AB
⚠ F701	QFS-C1223CEZZ	J	Fuse 1.25A	250V	AD
⚠ F702	QFS-C2023CEZZ	J	Fuse 2A	250V	AD
⚠ F703	QFS-C1223CEZZ	J	Fuse 1.25A	250V	AD
⚠ FH701	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH702	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH703	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH704	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH705	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH706	QFSHD1002CEZZ	J	Fuse Holder		AA

MISHELLANEOUS PARTS

P302	QPLGN0278GEZZ	J	Plug, 2pin	AA
P303	QPLGN0278GEZZ	J	Plug, 2pin	AA
P402	QPLGN0335FJZZ	J	Plug, 24pin	AD
P403	QPLGN1278GEZZ	J	Plug, 12pin	AC
P751	QPLGN0155FJZZ	J	Plug, 3pin	AE
P752	QPLGN0155FJZZ	J	Plug, 3pin	AE
P801	QPLGN0478GEZZ	J	Plug, 4pin	AB
P2001	QPLGN0578GEZZ	J	Plug, 5pin	AB
P2002	QPLGN0778GEZZ	J	Plug, 7pin	AC
SC1201	QSOCN0300FJZZ	J	Socket, 50pin	AG
SC1202	QSOCN0199FJZZ	J	Socket, 20pin	AE

RUNTK0633CEZZ
JACK UNIT

DIODES

VA451	RH-VX0039CEZZ	J	Varistor, VX0039CE	AD
D451	RH-EX0732CEZZ	J	Zener, EX0732CE	AH
	or			
D451	RH-EX0879CEZZ	J	Zener, EX0879CE	AD

RESISTORS

R450	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R451	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R452	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R453	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R454	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R455	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R456	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R457	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R458	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R459	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R460	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R461	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R462	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R465	VRS-TX2HF331J	J	330	1/2W	Metal Oxide	AB
R466	VRS-TX2HF331J	J	330	1/2W	Metal Oxide	AB

CONNECTING PARTS

J450	QJAKE0061TAZZ	J	Jack, S-IN	AM
J451	QJAKG0045CEZZ	J	Jack, AV Input 2	AL
J452	QJAKG0044CEZZ	J	Jack, Component Input	AL
J453	QJAKG0043CEZZ	J	Jack, Component Input	AL
J454	QJAKJ0046CEZZ	J	Jack, Head Phone	AE
J455	QJAKE0151CEZZ	J	Jack, Power Input	AE
J456	QJAKG0045CEZZ	J	Jack, AV Input 1	AL
P451	QPLGN0278GEZZ	J	Plug, 2pin	AA
P453	QPLGN0335JFZZ	J	Plug, 24pin	AD
P454	QPLGN1221REZZ	J	Plug, 12pin	AC
	QCNW-0334ADG1	J	Connecting Cord	AX
	QCNW-0335ADG1	J	Connecting Cord	AS

Ref. No.	Part No.	★	Description	Code

RUNTK0634CEZZ
REMOTE CONTROL UNIT

TRANSISTORS

Q2001	VSDTC144EE/-1	J	DTC144EE	AA
	or			
Q2001	VSUN9213///-1	J	UN9213	AA
Q2007	VSUMG4/////-1	J	UMG4	AC

DIODES

D2001	RH-EX0879CEZZ	J	Zener, EX0879CE	AD
	or			
D2001	RH-EX0732CEZZ	J	Zener, EX0732CE	AH
D2002	RH-PX0368CEZZ	J	PX0368CE	AE
D2003	RH-EX0879CEZZ	J	Zener, EX0879CE	AD
	or			
D2003	RH-EX0732CEZZ	J	Zener, EX0732CE	AH

CAPACITORS

C2001	VCKYTV1CF105Z	J	1	16V	Ceramic	AB

RESISTORS

R2011	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2012	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2013	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R2050	VRS-CY1JF472J	J	4.7	1/16W	Metal Oxide	AA

CONNECTING PARTS

SC2201	QPLGN0564TAZZ	J	Plug, 5pin	AC

MISHELLANEOUS PARTS

RMC2001	RRMCU0225CEZZ	J	Remote Control Receptor	AK
	PSLDM4450CEFW	J	Shield	AE
	QCNW-0310ADG1	J	Connecting Cord	AL

Ref. No.	Part No.	★	Description	Code

RUNTK0635CEZZ
SWITCH UNIT

DIODES

D2007	RH-EX0891CEZZ	J	Zener, EX0891CE	AC
D2008	RH-EX0891CEZZ	J	Zener, EX0891CE	AC
D2009	RH-EX0732CEZZ	J	Zener, EX0732CE	AH
	or			
D2009	RH-EX0879CEZZ	J	Zener, EX0879CE	AD
D2010	RH-EX0732CEZZ	J	Zener, EX0732CE	AH
	or			
D2010	RH-EX0879CEZZ	J	Zener, EX0879CE	AD

RESISTORS

R2002	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R2003	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R2005	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R2006	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA

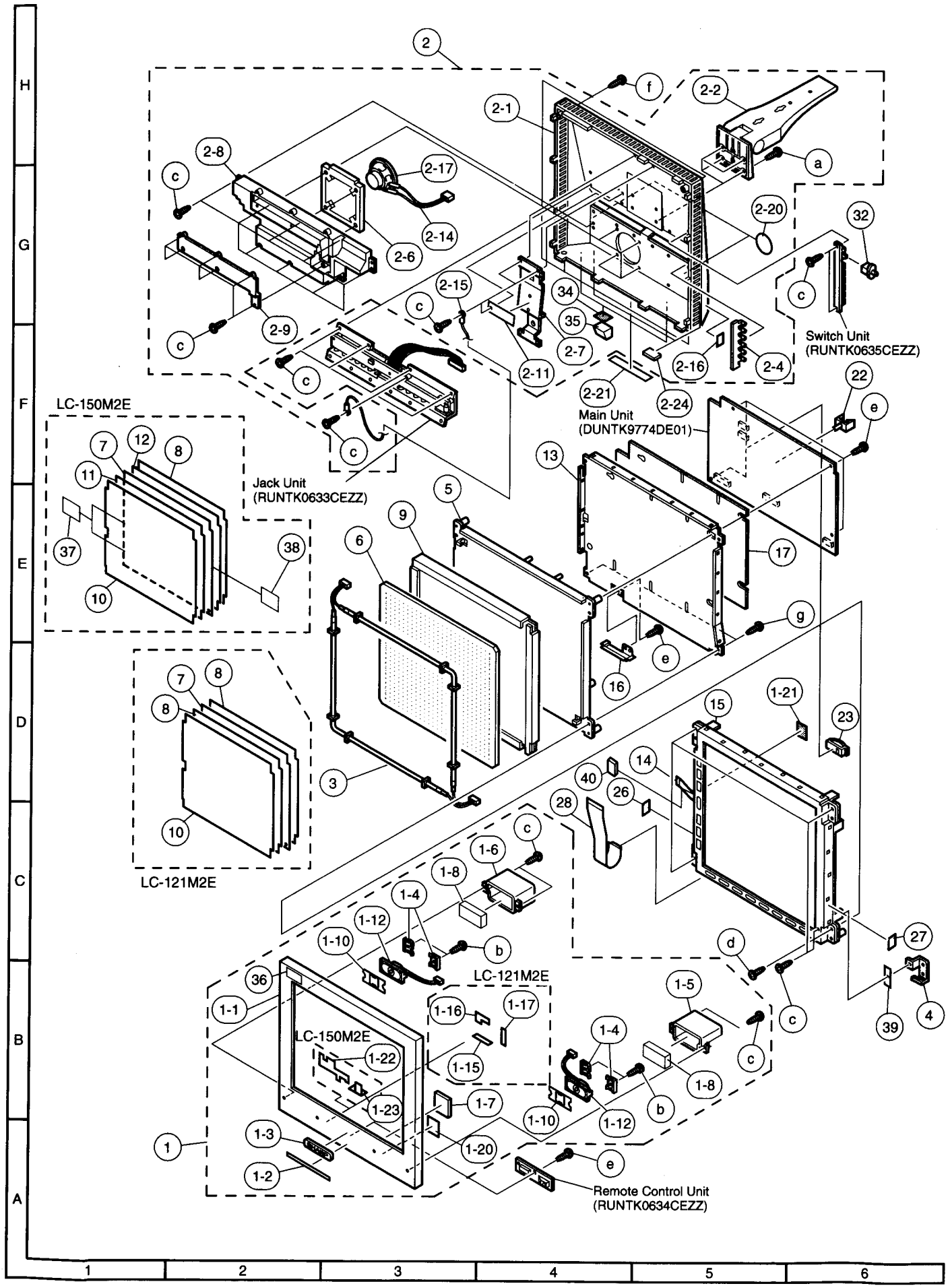
SWITCHES

S701	QSW-S0213CEZZ	J	SW, Power	AE
SW2002	QSW-K0095CEZZ	J	SW, In/Output Selection	AB
SW2003	QSW-K0095CEZZ	J	SW, Vol. (Up)	AB
SW2004	QSW-K0095CEZZ	J	SW, Vol. (Down)	AB
SW2006	QSW-K0095CEZZ	J	SW, Adj. (▶)	AB
SW2007	QSW-K0095CEZZ	J	SW, Adj. (◀)	AB
SW2008	QSW-K0095CEZZ	J	SW, Selection	AB

CONNECTING PARTS

SC2203	QPLGN0764TAZZ	J	Plug, 7pin	AD
	QCNW-0311ADG1	J	Connecting Cord	AM

CABINET EXPLODED VIEW



CABINET PARTS LIST

Ref. No.	Part No.	★	Description	Code
1	CCABA2338CE01	J	Cabinet A Ass'y (LC-121M2E)	BE
1	CCABA2343CE01	J	Cabinet A Ass'y (LC-150M2E)	BE
1-1	————————	—	Cabinet A	—
1-2	GCOVA1747CESA	J	RC Receptor Cover	AD
1-3	HBDGB3143CESB	J	Sharp Badge	AF
1-4	LANGS0122CEFW	J	Speaker Angle (Front)	AD
1-5	PCOVP1070CEKZ	J	Speaker Cover (Front, R)	AF
1-6	PCOVP1071CEKZ	J	Speaker Cover (Front, L)	AF
1-7	PCOVZ1078CEZZ	J	LED Cover	AF
1-8	PFLT-0014CEZZ	J	Felt	AC
1-10	PSPAZ0275CEZZ	J	Spacer Cover	AD
1-12	VSP4030P-428D	J	Speaker (Front)	AR
1-15	PSLDC3067CEZZ	J	Copper Film(LC-121M2E)	AD
1-16	PSLDC3068CEZZ	J	Copper Film(LC-121M2E)	AD
1-17	PSLDC3071CEZZ	J	Copper Film(LC-121M2E)	AC
1-20	PSHEP0167CEZZ	J	Ir Sheet	AB
1-21	PSLDM4500CEZZ	J	Copper Film(LC-121M2E)	AC
1-22	PSLDC3070CEZZ	J	Copper Film(LC-150M2E)	AE
1-23	PSLDC3069CEZZ	J	Copper Film(LC-150M2E)	AD
2	CCABB2246CE03	J	Cabinet B Ass'y (LC-121M2E[X])	BM
2	CCABB2246CE01	J	Cabinet B Ass'y (LC-121M2E/121M2E[K])	BM
2	CCABB2249CE03	J	Cabinet B Ass'y (LC-150M2E[X])	BM
2	CCABB2249CE01	J	Cabinet B Ass'y (LC-150M2E/150M2E[K])	BM
2-1	————————	—	Cabinet B	—
2-2	GDAi-1088CESA	J	Stand	BC
2-4	JBTN-1988CEKA	J	Operating Button	AG
2-6	LANGS0121CEFW	J	Speaker Angle (Rear)	AG
2-7	LANGU9010CEFW	J	Stand Mounting Angle	AL
2-8	PCOVP1072CEKZ	J	Rear Speaker Cover	AM
2-9	PCOVP1073CEKZ	J	Rear Speaker Cover Lid	AG
2-11	PSHEP0148CEZZ	J	Edge Cover Sheet	AD
2-14	QCNW-4942CEZZ	J	Speaker Cable	AE
2-15	QCNW-4948CEZZ	J	GND Cable	AC
2-17	VSP0065WB258A	J	Speaker (Rear)	AN
2-20	GCOVH9285CEZZ	J	Decoration Cover	AD
2-21	TLABM4081CEZZ	J	Model Label(LC-121M2E)	AC
2-21	TLABM4082CEZZ	J	Model Label (LC-121M2E[K])	AC
2-21	TLABM4083CEZZ	J	Model Label (LC-121M2E[X])	AC
2-21	TLABM4124CEZZ	J	Model Label(LC-150M2E)	AD
2-21	TLABM4125CEZZ	J	Model Label (LC-150M2E[K])	AD
2-21	TLABM4126CEZZ	J	Model Label (LC-150M2E[X])	AD
2-24	GLEGG9087CEZZ	J	Rubber Foot	AC
⚠ 3	KLMP-0073CEZZ	J	Lamp Unit(LC-121M2E)	AZ
⚠ 3	KLMP-0075CEZZ	J	Lamp Unit(LC-150M2E)	AZ
4	LANGQ9198CEFW	J	ITO Grounding Angle	AE
5	LHLDZ2082CEKZ	J	Light Guide Sheet Holder (LC-121M2E)	AT
5	LHLDZ2085CEKZ	J	Light Guide Sheet Holder (LC-150M2E)	AU
6	PGiDM0045CEZZ	J	Light Guide Sheet (LC-121M2E)	AY
6	PGiDM0046CEZZ	J	Light Guide Sheet (LC-150M2E)	BA
7	PSHEP0136CEZZ	J	ITO Sheet(LC-121M2E)	AX
7	PSHEP0142CEZZ	J	ITO Sheet(LC-150M2E)	BA
8	PSHEP0137CEZZ	J	Deffusion Sheet (LC-121M2E)	AL
8	PSHEP0143CEZZ	J	Deffusion Sheet (LC-150M2E)	AP
9	PSHEP0170CEZZ	J	Reflection Sheet (LC-121M2E)	AL
9	PSHEP0171CEZZ	J	Reflection Sheet (LC-150M2E)	AN
10	PSHEP0140CEZZ	J	Reflection Polarising Sheet (LC-121M2E)	BD
10	PSHEP0168CEZZ	J	Reflection Polarising Sheet (LC-150M2E)	AS
11	PSHEP0169CEZZ	J	D-BEF Sheet(LC-150M2E)	BM
12	PSHEP0164CEZZ	J	WAVE Sheet(LC-150M2E)	AX
13	PSLDM4483CEFW	J	Shield Case(LC-121M2E)	AN
13	PSLDM4484CEFW	J	Shield Case(LC-150M2E)	AQ
14	QCNW-4941CEZZ	J	LCD Cable(LC-121M2E)	AE
14	QCNW-4951CEZZ	J	LCD Cable(LC-150M2E)	AG
15	RLCDT0040CEZZ	J	LCD Module Unit (LC-121M2E)	DD
15	RLCDT0043CEZZ	J	LCD Module Unit (LC-150M2E)	DQ
16	PSLDM4482CEFW	J	Sosu Shield	AD
17	PZETV0675CEKZ	J	Insulator	AH
22	LHLDW1076GEZZ	J	Wire Holder	AA
23	LHLDW1207CEZZ	J	Wire Holder	AC
26	PSPAV0187CEZZ	J	Spacer(LC-121M2E Only)	AB
27	PSPAV0188CEZZ	J	Spacer(LC-121M2E Only)	AB
28	CPWBH0014CEZZ	J	LCD Sosu FPC	AV
32	JKNBP1159CEKA	J	Power Knob	AF
34	PSPAV0184CEZZ	J	Spacer(LC-121M2E)	AC
34	PSPAV0185CEZZ	J	Spacer(LC-150M2E)	AC
35	GLEGG9049CE08	J	Rubber Foot(LC-121M2E)	AD
35	GLEGG9064CEZZ	J	Rubber Foot(LC-150M2E)	AF
36	TLABZ0716CEZZ	J	Pop Label (LC-121M2E[K]/E[X]/ 150M2E[K]/E[X]Only)	AF
37	PSLDM4504CEZZ	J	Copper Film(LC-150M2E)	AC
38	PSLDM4505CEZZ	J	Copper Film(LC-150M2E)	AC
39	PSPAZ0292CEZZ	J	Spacer(LC-150M2E)	AB
40	PSLDM4501CEZZ	J	Copper Film(LC-150M2E)	AD
a	XBBSC40P08000	J	Screw (M4x8)(LC-121M2E)	AB
a	XBBSC40P11000	J	Screw (M4x11)(LC-150M2E)	AB
b	XEBSD20P05000	J	Screw (M2x5)	AA
c	XEBSD30P08000	J	Screw (M3x8)	AA
d	XBBSD20P05000	J	Screw (M2x5)	AA
e	XEBSF26P06000	J	Screw (M2.6x6)	AA
f	XEBSF30P12000	J	Screw (M3x12)	AA
g	XEBSN30P10000	J	Screw (M3x10)	AA

—— End of Cabinet Parts ——

SUPPLIED ACCESSORIES

Ref. No.	Part No.	★	Description	Code
			ACCESSORIES	
⚠	QACCB0016TAZZ	J	AC Cable (LC-121M2E[K]/150M2E[K])	AV
⚠	QACCK0002TAZZ	J	AC Cable (LC-121M2E/150M2E)	AM
⚠	QACCL0020TAZZ	J	AC Cable (LC-121M2E[X]/150M2E[X])	AP
	QCNW-1335TAZZ	J	AV Cable	AM
	QSOCZ0011FJZZ	J	21P RCA Adapter	AQ
	LANGU9024CESA	J	Wall Mount Bracket	AR
	RRMCG1459CESA	J	Ir Remote Control	AS
	TINS-6529CEZZ	J	Operation Manual	AW
	UADP-0181CEN1	J	AC Adapter	BP

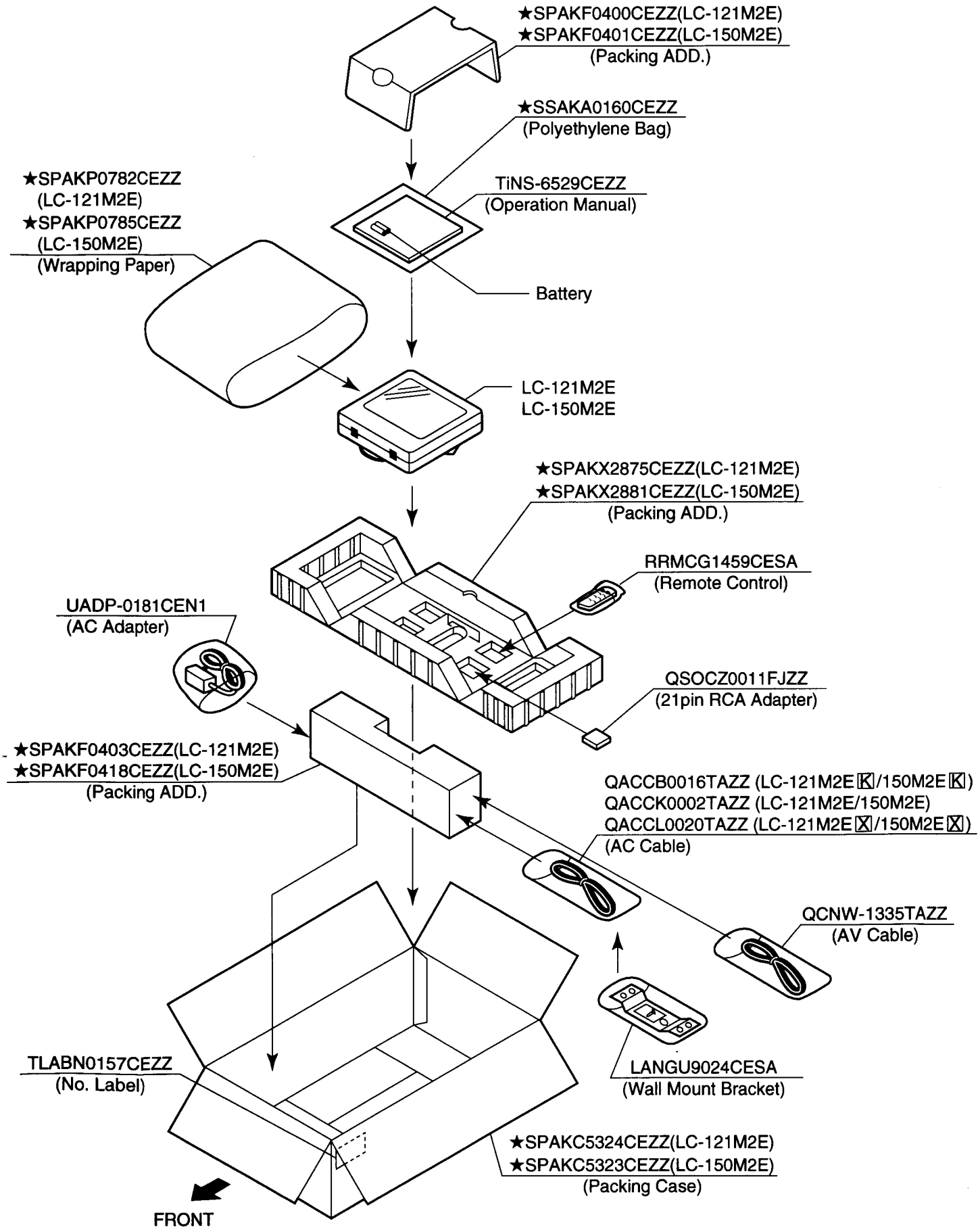
—— End of Supplied Accessories ——

PACKING PARTS (NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	SPAKF0400CEZZ	—	Packing Add.(LC-121M2E)	—
	SPAKF0401CEZZ	—	Packing Add.(LC-150M2E)	—
	SPAKF0403CEZZ	—	Packing Add.(LC-121M2E)	—
	SPAKF0418CEZZ	—	Packing Add.(LC-150M2E)	—
	SPAKC5324CEZZ	—	Packing Case(LC-121M2E)	—
	SPAKC5323CEZZ	—	Packing Case(LC-150M2E)	—
	SPAKP0782CEZZ	—	Wrapping Paper (LC-121M2E)	—
	SPAKP0785CEZZ	—	Wrapping Paper (LC-150M2E)	—
	SPAKX2875CEZZ	—	Packing Add. (LC-121M2E)	—
	SPAKX2881CEZZ	—	Packing Add. (LC-150M2E)	—
	SSAKA0160CEZZ	—	Polyethylene Bag	—
	TLABK0001TAZZ	—	No. Card	—
	TLABN0157CEZZ	—	No. Label	—

—— End of Packing Parts ——

13. PACKING OF THE SET



★ Not Replacement Item